CONSTRUCTION NEWS

Engineering News-Record, April 17, 1924

Construction Barometer and Proposals will Appear Next Week as Usual

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Ballston Spa—See "Unclassified."

N. Y., Fulton—Election May 7, $200,000 bonds, additions and improvements to water supply.

N. Y., Saratoga Springs — Plans new water system from Hunt, Jenny and Effner Lakes. $500,000. C. R. Knapp, Arcade Bldg., Bway., mayor.

N. Y., Syracuse — Bureau Water plans new East Reservoir. $480,000. P. F. Durkin, supt.

N. Y., Whitehall—Bd. Village Trustees had plans prepared Pike Brook and Pine Lake gravity water supply system. $280,000.

W. Va., Salem—Voted $75,000 bonds, improvements and extensions to water system.

Ga., Elberton—Voted $40,000 bonds for waterworks and sewers.

O., Cleveland—See "Sewers."

O., Columbus—See "Streets and Roads."

Ill., Blandinsville — Having preliminary plans prepared pumping, plant, tank on tower and distribution system, will exceed $15,000. Caldwell Eng. Co., Jacksonville, engrs.

Ill., Carthage—Soon takes bids waterworks and distribution system. $150,000. Caldwell Eng. Co., 502 Ayres Bldg., Jacksonville, engrs.

Ill., Jacksonville — Election Apr. 15, $100,000 bonds, 4,000 ft. 16-in. Class B mains, 500,000 ga. elevated tank, 3 m.g. steam turbine, chain grate stoker, etc. Caldwell Eng. Co., Jacksonville, engrs. Noted Feb. 28.

Ill., Newton—Having preliminary plans prepared filtration plant. $50,000. Caldwell Eng. Co., 502 Ayres Bldg., Jacksonville, engrs.

Ill., Oquawka—Having preliminary plans prepared waterworks, pumps, reservoir, distribution mains, etc. $20,000. Caldwell Eng. Co., 502 Ayres Bldg., Jacksonville, engrs.

Ill., Rushville—City Clerk takes bids about June 1, water distribution system and force main. $37,000. Caldwell Eng. Co., Jacksonville, engrs. Noted Dec. 13.

Ia., Marshalltown—Voted $300,000 bonds iron removal plant, low lift pumping station, 6 mi. pipe extension. O. G. Herm, Marshalltown, engr. Noted Mar. 6.

Minn., Rochester — See "Contracts Awarded."

Kan., Reserve — Voted $15,000 bonds, waterworks and distribution system. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engr.

Mo., South West City—Plans waterworks, reservoir, distribution system and electric light plant. To exceed $25,000. Engineer not announced.

Ark., Springdale — Making preliminary plans 12 in. c.i. mains to replace present 6 in. mains, will also extend service into new territory. $40,000.

Tex., Blooming Grove—Election Apr. 29, $42,000 bonds for well and system. Elrod Eng. Co., 3124 Elm St., Dallas, engr.

Tex., Cisco — Making plans filteration plant and standpipe. $50,000. Elrod Eng. Co., 3124 Elm St., Dallas, engr.

Tex., Dallas—North Highlands Impvt. Dist., c/o C. K. Bullard, Magnolia Bldg., takes bids about May 1, 13,600 ft. 4- to 6-in. c.i. pipe, etc. Myers & Noyes, Mercantile Bank Bldg., engrs. $37,500.

Tex., Ralls—Election Apr. 30, $50,000 bonds, waterworks improvements. J. Haney, mayor.

Tex., Yorktown—Making plans 1 m.g. reservoir. $50,000. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Okla., Newkirk—Plans election $150,000 bonds for new wells, reservoir, 15,000 ft. 8- and 10-in. mains, etc. Musson & Gayle, Grain Exch. Bldg., Oklahoma City, engrs.

Okla., Texola — Plans election $40,000 bonds, water plant and electric light plant. Engineer not selected.

Calif., Redwood City—Plans to purchase deep well pumping plant, 250 g.p.m. from 2 wells, to replace 2 existing air pumps. C. L. Dimmitt, city engr.

Calif., San Diego—See "Buildings."

Ont., Birchcliff — Scarboro Twp. voted $30,000, extending waterworks, 11,000 6 in. c.i. mains, hydrants, etc. C. E. Fraser, Stop 19, Kingston Rd., Toronto, engr.

BIDS DESIRED

R. I., Providence—May 21, at office of Water Supply Bd., City Hall, purification works and adjacent portions of Scituate aqueduct, near Kent, in Scituate, 10 mi. west of Providence. B. T. Potter, chn.; adv. E. N.-R. Apr. 17.

N. J., Berlin—Apr. 21, by Twp. Com., c.i. pipe, special castings, valves, fire hydrants, pipe laying and standpipe. W. H. Boardman, 426 Walnut St., Phila., engr.

N. J., Maple Shade—Apr. 30, by Chester Twp. Com., P. S. 2, constructing waterworks, Contr. 1. Remington & Vosbury, 509 Cooper St., Camden, engrs.; adv. E. N.-R. Apr. 17.

Fla., Cocoa—Apr. 21, at office of E. E. Grimes, mayor, material and equipment for waterworks and sewerage system, 800 bbl. cement, 125 cu.yd. brick sand, 175 cu.yd. concrete sand, 400 tons crushed rock or washed gravel, 50,000 lb. reinforcing, two 750 g.p.m. centrifugal pumps, one for direct connection to motor, other for direct connection to gas engine; 100,000 gal. steel tank on 75 ft. tower, 944 ft. 8- to 36-in. B & S Class A pipe; 1,212 ft. 10 in., 10,726 ft. 8 in. and 21,156 ft. 6 in. B & S Class B pipe or 150 lb. De Lavaud, 18 tons c.i. fittings, 16,000 ft. 1½ in. and 5,000 ft. ¾ in. galvanized pipe, 40,000 lb. virgin pig lead, 880 ft. 36 in., 195 ft. 21 in., 215 ft. 18 in., 620 ft. 12 in., 3,950 ft. 10 in., 26,825 ft. 8 in. and 624 ft. 6 in. sewer pipe, etc. I. B. Smith, Titusville, engr. Noted Feb. 28.

O., Cincinnati—Apr. 24, by Director Pub. Serv., constructing reservoir for Eastern Hills, incl. 70,000 cu.yd. earth excav., 18,000 cu.yd. rein.-con., 6,000 cu.yd. mass concrete, 500 lin.ft. 8 in., 550 lin.ft. 24- to 30-in. iron pipe, 2,000 lin.ft. 8- to 12-in. vitr. pipe, 13,000 sq.yd. gunite, 20,000 sq.yd. sodding, etc. $720,000. J. A. Hiller, city engr.

O., Cleveland—Apr. 23, 60 in. c.i. mains in west side, Sect. 2. To exceed $150,000. A. V. Ruggles, City Hall, engr.

Ill., Danville—City taking bids ten 12 x 14 in. tainter gates, two 4 x 4 sluice gates, concrete dam and abutments with earth fill on one end and concrete roadway over top, involving 10,000 cu.yd. concrete, 7,000 cu.yd. excav., etc. $125,000. H. M. Ely, supt. Mead & Seastone, Journal Bldg., Madison, Wis., engrs.

Wis., Two Rivers—See "Sewers."

Kan., Junction City—Apr. 22, by T. M. Dorn, city clk., 3 deep wells, 24-in. diam., 200,000 gal. concrete reservoir, well houses, pipe and pipe line connections, 75 hp. oil engine unit switchboard and transformers, 3 vertical motor driven pumps. Burns & McDowell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Apr. 3.

Neb., Hay Springs—Apr. 22, by R. Gustafson, city clk., waterworks system. $20,000. Henningson Eng. Co., Natl. Bank Bldg., Omaha, engrs. Noted Apr. 3.

Mo., Malden—Apr. 20, by Malden Compress Co., 100,000 gal. tank on 100 ft. tower, 1,500 ft. 8 in., 2,200 ft. 6 in. and 1,000 ft. 4 in. c.i. pipe, etc. Private plans.

Mo., St. Louis—May 13, by Bd. Pub. Serv., 208 City Hall, intake and engine pits at site of new waterworks at Howard Bend on Missouri River; adv. E. N.-R. Apr. 17.

Tex., Grenham — Apr. 30, by Mayor, 900,000 gal. purification plant, incl. basins, mixing tanks. $70,000. Municipal Eng. Co., Praetorian Bldg., Dallas, engr.

Tex., Mart—Taking bids complete waterworks, incl. 4 mi. main and earth dam. $50,000. Koch & Fowler, Central Bank Bldg., Dallas, engrs. Noted Jan. 31.

Ont., Toronto—May 13, by W. W. Hiltz, mayor, City Hall, furnishing 30 in. c.i. pipe for mains, Tender 43; 30 in. stop valves, Tender 44; one 25 m.g. 3 stage centrifugal pump with steam turbine, Tender 45. $60,000. R. C. Harris, city engr.

BIDS RECEIVED

N. Y., Binghamton—Bd. Contr. & Supply, mains in Court, Ely and Robinson Sts., from La Roche & Brown, Binghamton, $25,010; Vestal Ave., from C. W. Rose, 616 Chenango St., $12,417. Noted Apr. 10.

Md., Baltimore—Bd. Awards, Apr. 9, installing motor-operated pumps and c.i. piping in Pumping Station 1, from H. A. Kries & Sons Co., 6 West Lombard St., $9,956. Noted Apr. 3.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 13,000 ft. 6 and 8 in. c.i. mains, Impvt. 550, from Amato Constr. Co., 5910 Kinsman Rd., $81,789. Noted Mar. 27.

Wis., Milwaukee—Water pipe and special castings, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan, Chicago, 3,205 tons plain straight pipe $54.50 per ton, 338 tons lugged straight pipe $74.50, 175 tons special castings $150; 3 chlorinating control machines for Riverside Pumping Station, from Wallace & Tiernan Co., 180 North Market St, Chicago, $5,855. Noted Apr. 3.

CONTRACTS AWARDED

Md., Baltimore—Bd. Awards, valves and water boxes for Water Dept., to W. P. Taylor Co., Ellicott Sq., Buffalo, N. Y., $30,750.

La., Ferriday — P. H. Corbett, mayor, waterworks system, pumphouse, to C. J. Montgomery, Kaplan; c.i. pipe and specials to Natl. Cast Iron Pipe Wks., Tarrant City, Birmingham, Ala.; valves, hydrants, boxes, etc., to Dixie Mill Supply Co., 901 Tchoupitoulas St., New Orleans; tank and tower to Chicago Bridge & Iron Wks., 608 South Dearborn St., Chicago, Ill.; deep well to Gray Artesian Well Co., Pensacola, Fla.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 11,006 ft. 6, 8 and 12 in. c.i. mains in Lee Rd. and Lee Center Subdivision, Impvt. 553, to A. Marra Constr. Co., Ulmer Bldg., $49,381. Noted Apr. 10.

O., Cleveland—Cuyahoga Co., 11,000 ft. 6 and 8 in. c.i. mains, Biddulph Rd. Impvt. 49, to Hadded-Mall Co., Schofield Bldg., $15,050. Noted Apr. 3.

O., Canton—F. Bordner, Massillon Rd., 1 mi. 12 in. mains in 11th St. S. W. and Bellflower Ave., also 1 mi. 2 and 6 in. mains in West Manor addition, to Garaux Bros. Co., Gen. Del., Canton, $50,000.

O., Toledo—Dept. Pub. Welfare, Columbus, complete water system at Toledo State Hospital, to J. L. Skeldon Eng. Co., 725 Nicholas Bldg., about $18,000.

Minn., Minneapolis—Furnishing four 48-in., ten 30-in., twenty 24-in., ten 20-in. and ten 8-in. gate valves; one 6 x 6 in. and ten 5 x 5 in. sluice gates; six 14-in., nine 12-in., five 8-in. and five 4-in. mud valves, to Rensselaer Valve Co., 53 West Jackson Blvd., Chicago, and Chapman Valve Mfg. Co., 120 South 9th St., Minneapolis. Noted Feb. 28.

Minn., Rochester — Public Utility Bd., laying 7,100 lin.ft. mains (labor only), excavating and backfilling, to W. C. Fraser, 1836 Marshall Ave., St. Paul. $7,900; drilling 4 wells, 12-in. diam., 50 ft. deep, to A. Nelson, Rochester, $3,580. Will soon take bids pumping equipment, 3 motor driven pumps, concrete water tower. Noted Apr. 3.

Kan., Manhattan — Kansas Agricultural College, centrifugal pumps, to Fairbanks, Morse & Co., 900 South Wabash Ave., Chicago, air compressors, to Sullivan Mchy. Co., 124 South Michigan Ave., Chicago. Engrs. est. $15,000.

Tex., Cisco—For 16,500 ft. 14 in. c.i. pipe and miscellaneous fittings, etc., to U. S. Cast Iron Pipe Co., Scollard Bldg., Dallas, approximately $61 per ton. Noted Dec. 20.

Sewers

PROPOSED WORK

N. Y., Binghamton—Council and Bd. Pub. Wks. plan storm sewer in Beaver St. (part of Brandywine sewer). To exceed $25,000. B. Winsor, comr. Pub. Wks.

N. Y., Gloversville—Plans sanitary sewer in Bleecker St., will extend present sewer to West State St. $32,000. W. H. Marple, city clk.

N. Y., Jamestown — Bd. Pub. Welfare had plans prepared disposal plant, $175,000. H. Burdette, Cleveland, O., sanitary engr.

Sewers (Continued)

Pa., Meyerdale—See "Streets and Roads."

Pa., Williamsport—Plans election, $35,000 bonds, for sewers.

Ga., Elberton—See "Waterworks."

Ky., Winchester—Plans sewerage system. To exceed $25,000. Commissioner Pub. Property, engr.

O., Cleveland—W. E. Holland Co., engrs., 1620 Euclid Ave., takes bids this spring vitr. sewers and c.i. mains in Lorain Ave. and Rocky River Dr., for L. J. Ursem Realty Co., 9759 Lorain Ave. $40,000.

O., Columbus—See "Streets and Roads."

O., Youngstown — Voted $75,000 bonds, sanitary sewerage system and disposal works, consisting of setling tanks of 2 story type, and chlorination plant. I. Turner, city engr. Noted Jan. 17.

Mich., Detroit—Having plans prepared 356 ft. Swain Ave. outlet sewer, 341 ft. double barrel section and 15 ft. single cylinder 3 ft. barrel, from Jefferson Ave. to Harbor Line, Sewer Arm 3939, in Dexter Blvd. and Dorris Ave., 1,600 ft. 3 ft. 6 in. brick cylinder and 904 ft. 15-24 in. vitr. crock, Storm Sewer 3854, in Philip Ave., 2,370 ft. 12-18 in. vitr. crock pipe, Storm Sewer 3855, in Manistique Ave., 2,431 ft. 12-18 in. vitr. crock, Storm Sewer 4102, in Three Mile Dr., 5,894 ft. 12-20 in. vitr. crock, Sewer 4094, 4,920 ft. 12-20 in. vitr. crock, Sewer 4097, 6,384 ft. 12 in. to 2 ft. 6 in. x 3 ft. 9 in. egg shape, Sewer 4103, 1,019 ft. 12-24 in. vitr. pipe, Sewer 4104, 2,137 ft. 18-24 in. vitr. pipe. G. Jerome, city engr.

Mich., Royal Oak—Having plans prepared sewage disposal plant and pumping station, both 2 m.g. capacity. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engr.

Ill., Dallas City—Had preliminary plans prepared sanitary and storm sewerage system. $40,000. Caldwell Eng. Co., 502 Ayres Bldg., Jacksonville, engrs.

Tex., El Paso—Election Apr. 30, $100,000 bonds, sewer system improvements, laying additional mains, etc. Address Mayor Dudley.

Tex., Ft. Worth—Election Apr. 29, $28,000 for sanitary sewers. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

Tex., Winters—Voted $50,000 bonds for sewers, etc. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs. Noted Mar. 13.

Mo., Cameron — Soon takes new bids sewers, disposal plant and 2 pumping stations, etc. $250,000. Former bids rejected. Black & Veatch, 701 Mutual Bldg., Kansas City, engrs. Noted Mar. 20.

Mo., St. Louis—Plans 12- to 66-in. vitr. clay and rein.-con. or brick sewers in district between Prairie, Finney, Dayton and 22nd Sts., Rocky Branch Relief 1, $580,000; outlet sewer in Sullivan and Vandeventer Sts. with connecting sewers in district between Ashland, Prairie, Easton and Taylor Sts., Rocky Branch Relief 2, $690,000. W. W. Horner, 300 City Hall, engr.

Calif., Coronado (Branch San Diego)—Plans to vote on $25,000 bonds for sewers, storm drains, etc. in Flats Dist. T. J. Allen, city mgr.

Calif., San Diego—See "Buildings."

Calif., San Francisco — City and San Francisco Co. having plans prepared Visitacion Valley sewer system, $25,000 or more; Sunset-Central Dist. sewer system, $165,000; College Hill tunnel sewer project, $300,000 or more. M. M. O'Shaughnessy, city engr.

Calif., San Juan Capistrano—San Juan Capistrano Sanitary Dist. had plans prepared 1,301 ft. 6 in., 7,000 ft. 8 in. and 1,745 ft. 10 in. sewer pipe, etc.

Calif., South San Francisco (Branch San Francisco)—Having plans prepared vitr. and concrete sewers. To exceed $25,000. G. A. Kneese, Courthouse, Redwood City, engr.

Calif., Tulare — Having plans prepared, "Elrod" process sewage treatment plant, storm and sanitary sewers. Elrod Eng. Co., Mills-Fraser Bldg., Santa Monica, engrs. Noted Jan. 3.

Ont., Toronto—Plans storm relief sewers in Cawthra Ave., $51,000, Queen St. E. and Neville Pk., $22,000, Jackman Ave., $26,000. R. C. Harris, city engr.

Ont., Welland—Making plans new sewerage system. $500,000. Willis-Chipman, Mail Bldg., Toronto, engrs.

BIDS DESIRED

N. Y., Brooklyn—Apr. 23, by E. Riegelmann, boro pres., Boro Hall, repairing sewers in Benson Ave. and Bay 7th St.; sewers in Bay Parkway, 7th Ave. east and west sides, 65th, Bay 34th, 73rd and 80th Sts., Ft. Hamilton Parkway between 76th and 77th Sts., and Ft. Hamilton Parkway between 84th and 85th Sts.

N. Y., Brooklyn—Apr. 23, by E. Riegelmann, boro pres., Boro Hall, Sect. 2C, modification and extension of biological plant, 26th Ward disposal works.

N. Y., Hamburg—May 6, by Bd. Village Trustees at office of R. F. Piper, village clk., 8 South Buffalo St., sanitary sewerage system, Imhoff tank, sludge drying bed, chlorination chamber and settling tank. G. C. Diehl, 577 Ellicott Sq., Buffalo, civil engr.; adv. E. N.-R. Apr. 17. Noted Apr. 10.

N. J., Sayreville—May 7, by F. Hartman, mayor, and Boro Council, Boro Hall, vitr. tile and c.i. outfall sewers, also c.i. force mains. W. S. Coulter, 114 Liberty St., New York City, consult. engr.; adv. E. N.-R. Apr. 17. Noted Apr. 10.

Pa., Butler—May 6, by C. G. Chase, clk. City Council, sewers in Projects 1, 2 and 3. F. M. Harper, city engr. P. S. Wickerham, consult. engr.; adv. E. N.-R. Apr. 17.

Pa., Pottstown—Apr. 26, at office of Secretary Boro Council, 47,000 ft. 4- to 30-in. vitr. sanitary sewers. Gannett, Seelye & Fleming, Engineers Inc., Harrisburg, engrs.; adv. E. N.-R. Apr. 17.

W. Va., Clarksburg—See "Streets and Roads."

Fla., Cocoa—See "Waterworks."

O., Cleveland—Apr. 24, sewers in Berdelle Ave. S. E., Harvard Ave. S. E., Kazimier Ave. S. E., Kensington Rd. S. W., Krakow Ave. S. E., Loretta Ave. S. W., Marcella Rd. N. E., Rahbun Ave. S. E., South Hills Blvd., Thrush Ave. S. W., Wheelock Rd. N. E., East 68th and East 108th Sts. R. Hoffman, City Hall, engr.

Wis., Two Rivers — Apr. 30, by J. Doleysh, city clk., 5,292 lin.ft. 8- to 12-in. vitr. sewers and 7,090 lin.ft. 4- and 6-in. c.i. water mains in various streets. D. H. Ames, City Hall, engr.

Neb., Fremont—Apr. 23, 38,800 ft. 27 in. rein.-con. and 3,100 ft. 24 in. vitr. clay sewers. $69,000. L. M. Roessler, city engr.

Neb., Omaha—Apr. 25, by H. Beal, city engr., City Hall, 6,307 ft. rein.-con. sewers, etc., in Dist. 854. Noted Feb. 21.

Ark., Rogers—See "Streets and Roads."

Calif., Santa Ana—May 6, by L. J. Wester, secy. La Mabra Sanitary Dist. of Orange Co., sewage collection system and treatment works, incl. 1,625 lin.ft. 15 in., 3,093 lin.ft. 12 in., 5,857 lin.ft. 10 in. and 2,238 lin.ft. 8 in. sewer pipe, laid; 42 manholes; 165 wyes; one sewage treatment plant complete, "Elrod" process. Elrod Eng. Co., Mills Fraser Bldg., Santa Monica, consult. engrs.

BIDS RECEIVED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Edison and Hobart Aves., from McDonald & Wilson Co., $31,160 and $3,225 respectively; Sedgwick Ave., from Sunrise Constr. Co., Inc., $7,679; East 194th St., from C. E. Farrell Contg. Co., 1981 Pilgrim Ave., $8,110. Noted Apr. 3.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 22,000 ft., 8- to 48-in. vitr. sewer in Miles Rd. Impvt. 501, from Amato Constr. Co., 5910 Kinsman Rd., $130,712. Noted Mar. 27.

Mich., Detroit—Dept. Pub. Wks., 5,294 ft. Six Mile Rd. Sewer Sect. 9, from G. R. Cooke Co., 1260 Penobscot Bldg., $122,147; 5,468 ft. Seven Mile Rd. Sewer, Sect. 9, from W. Blanck & Co., 827 Ford Bldg., $128,246. Noted Mar. 27.

Ill., Chicago—South Park Comrs., sewers on South Park Ave., from F. D. Christopher, c/o South Park Comrs., $63,772.

Ill., Harvey—Bd. Local Impvt., Mar. 17, 36,000 ft. 10-18 in. sewers in following: Special Assessment Dists. 168 and 169, from Kraay & Livers, Harvey, $21,530 and $16,797; Dist. 170 from Christensen Bros., Urbana, $36,157. Noted Mar. 13.

Calif., Alhambra — Sewer system, incl. 1,276 ft. 12 in. and 42,800 ft. 8 in. vitr. pipe, 1,430 wyes, etc., from Culjak & Bebek, 182½ North Brannick St., Los Angeles, $96,510. Noted Apr. 3.

CONTRACTS AWARDED

O., Cleveland—Cuyahoga Co., 23,000 ft. 8- to 42-in. vitr. sewers, in Biddulph Rd. Impvt. 50, to Hadded-Mall Co., Schofield Bldg., $116,461. Noted Apr. 3.

O., New Philadelphia — Director Pub. Serv. sanitary sewer together with laterals in Bway. and High St., to C. W. Mauer, Dover, $30,419. Engrs. est. $35,000. Noted Mar. 27.

Mich., Detroit—Dept. Pub. Wks., vitr. crock sewers, Lateral 4080 to T. Porcarelli, Wolverine Hotel, $14,969; Laterals 4084, 4091, and 4092 to Western Constr. Co., 1208 Ford Bldg., $3,953, $3,426 and $3,375 respectively; Laterals 4093 and 4090 to A. Rossi, 1337 Brady St., $369 and $3,248 respectively.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., equipment for North Side Sewage Treatment Wks., Div. E, meters to General Electric Co., 230 South Clark St.; Div. B, thickeners to Dorr Co., Inc., 38 South Dearborn St. Noted Mar. 20.

Wis., Beloit—Sanitary sewers in various streets, to United States Constr. Co., Iowa Falls, Ia., $48,452. Noted Mar. 27.

Wis., Janesville—Will lay 17,771 lin.ft. 10- to 30-in. storm sewer in various streets, by day labor. C. V. Kerch, city engr.

Ia., Marshalltown — Sanitary sewers, 50,038 ft. 6- to 10-in. pipe, 70 manholes, 36 lampholes, etc., to E. L. Royer Constr. Co., 1322 32nd St., Des Moines, $42,007. Noted Mar. 27.

Ia., Mt. Pleasant — See "Streets and Roads."

Neb., Haigler — Constructing sewers to C. L. Hansen, Charles City, Ia., $35,910.

Tex., Floydada—Disposal plant, mains, etc., to Sherman Machine & Iron Wks., 18-32 East Main St., Oklahoma City, $49,577. Noted Apr. 3.

Calif., Pasadena—Constructing 6,500 lin. ft. 22 in. vitr. sewer in Arroyo Blvd., to C. E. Green, Western Mutual Life Bldg., Los Angeles, $33,065. Noted Apr. 10.

Ont., Long Branch — Teobicoke Twp. (Islington) laying 80,000 ft. 8-48 in. vitr. pipe, here, to Dufferin Constr. Co., 210 Victoria St., Toronto, $98,000; furnishing pipe to Ontario Sewer Pipe & Clay Products Ltd., Mimico.

Waste Disposal

PROPOSED WORK

Ky., Winchester—Comnr. Pub. Property plans garbage incinerator for 20,000 population.

Minn., Mankato—City plans incinerator. $25,000. F. W. Bates, city clk.

Calif., Los Angeles—Plans to vote on $600,000 bonds, incinerator. J. A. Griffin, city engr.

BIDS DESIRED

Pa., Munhall—May 20, by Boro. Council, garbage and refuse destructor; adv. E. N.-R. Apr. 17.

O., Steubenville—Apr. 21, by R. P. Price, dir. Pub. Serv., 70 ton 24 hr. refuse and garbage incinerator. $23,800. B. M. Smith, clk.

BIDS RECEIVED

N. Y., East Chester (Greycourt P. O.)—E. A. Mathews, clk. Town Bd., Village Hall, Tuckahoe, incinerator plant, chimney and building, on White Plains Rd., here, building from M. Miller Constr. Corp., 709 6th Ave., New York, $68,000; equipment from Decarie Incinerator Co., New York. Noted Mar. 20.

Bridges

PROPOSED WORK

Fla., Palatka—Putnam Co. having plans prepared concrete memorial Bridge over St. Johns River, here. $500,000. D. B. Luten, 1056 Lemcke Ave., Indianapolis, Ind., engr. Noted Dec. 20.

La., New Orleans—Louisville & Nashville R.R., 10th St. and Bway., Louisville, Ky., plans one 282 ft. and two 272 ft. spans, steel truss railroad bridge (Chef Menteur Bridge), near here. $1,500,000. W. H. Courtenay, ch. engr.

La., Shreveport—See "Unclassified."

O., Sandyville — Tuscarawas Co., Court House, (New Philadelphia), plans steel and concrete bridge over Sandy Creek, here. $25,000. R. A. Stingel, Court House, New Philadelphia, engr.

Washington—**Grant Co.** (Ephrata) and Kittitas Co. (Ellensburg) plan steel toll bridge 1,700 ft. over Columbia River at Vantage on North Central Highway. $350,000-$500,000.

Ont., Chatham — Chatham and Dover Twps. having plans prepared concrete and concrete and steel bridges on township roads. $35,000. W. G. McGeorge, Chatham, engr.

BIDS DESIRED

N. Y., Buffalo—Taking bids 100 ft. 2 steel plate girder bridge, rein.-con. substructure, Stevenson St. $60,000. C. E.

Bridges (Continued)

Babcock, Municipal Bldg., engr. Noted Mar. 20.

New Jersey—May 7, by Bd. Freeholders Monmouth Co. (Freehold), 200 ft. concrete enclosed steel span, 26.4 ft. roadway, 11 ft. footpaths, over Deal Lake between Wanamassa and Asbury Park. $100,000. G. K. Allen, Jr., 60 Broad St., Red Bank, engr.

W. Va., Williamson—Apr. 29, by Mingo Co., Bridge 106, two 65 ft. rein.-con. arches across Pigeon Creek, at Burch; Bridge 108, 40 ft. rein.-con. deck girder, masonry abutments, across Rockhouse Fork, near Burch; Bridge 109, 50 ft. rein.-con. through girder, masonry abutments across Rockhouse Fork, near Puritan; Bridge 110, 50 ft. rein.-con. through girder, masonry abutments, across Rockhouse Fork. L. G. Bray, pres.

Fla., Jacksonville—Apr. 21, by Harrington, Howard & Ash, engrs., Orear Leslie Bldg., Kansas City, Mo., 2 rein.-con. bridges, 1,600 ft. long with steel draw spans, for city. $450,000. Noted Feb. 14.

Ind., Indianapolis—May 5, by Bd. Pub. Wks., constructing 7 span bridge over White River at Kentucky Ave. and 5 span bridge over White River at Oliver Ave.; adv. E. N.-R. Apr. 17.

Ind., Petersburg — Apr. 25, by Comrs. Pike Co., several small highway bridges in Logan, Patoka and Clay Twps. To exceed $25,000.

South Dakota—See "Streets and Roads."

Missouri—Apr. 22, by State Hy. Dept., Jefferson City, one 180 ft. and two 80 ft. steel truss spans, 2 rein.-con. piers, etc., over Lamine River, Cooper Co. B. H. Piepmeier, state highway engr.

Tex., Baird—See "Streets and Roads."

Tex., Memphis—See "Streets and Roads."

Tex., San Angelo — Apr. 29, by J. T. Mathison, judge Tom Green Co., 340 ft. bridge; 120 ft. steel span, rein.-con. girder approaches, pile bents, masonry substructure, concrete piers, over Middle Concho River 12 mi. west of here. T. J. Kelley, co. engr. Noted Apr. 10.

Wash., Chehalis — See "Streets and Roads."

Calif., Los Angeles—Apr. 28, by Supervs. Los Angeles Co., bridge over Rio Hondo on Telegraph-Anaheim Rd., incl. eight 60 ft. wooden trusses, creosoted piles, wooden floor beams, 27 ft. roadway, (piles and floor beams to be furnished by county). $40,000.

BIDS RECEIVED

Delaware—See "Streets and Roads."

Tennessee — Dept. Hys. & Pub. Wks., Nashville, four 40 ft. rein.-con. span bridge over Sulphur Fork and one 40 ft. span over Wartrace Creek, State Aid Project 158, Robinson Co., from Moore Constr. Co., Hopkinsville, Ky., $22,922; six 40 ft. rein.-con. spans at Sta. 96-30, Federal Aid Project 82, Anderson Co., from Knoxville Roofing & Paving Co., Knoxville, $25,753. Noted Mar. 27.

O., Akron — City, steel and concrete bridge, Belmont Ave., from Independent Bridge Co., May Bldg., Pittsburgh, Pa., $104,420, engrs. est. $110,000.

Mich., Ludington—State Hy. Dept., Lansing, two 75 ft. span through concrete girder bridge, here, Mason Co., from Donalds & Hull, Dryden, $46,230.

Kan., Iola—Allen Co., 2 bridges incl. 140 ft. arch ½ mi. from Humbolt, Federal Aid Project 168, from Fry Bros., Iola, $29,402 and $3,819. Noted Mar. 20.

Neb., Broadwater—R. L. Cochran, state engr., Lincoln, seven 100 ft. concrete and steel truss spans over Platte River, Federal Aid Project 79C, south of here, from Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, $73,300. Engrs. est. $75,000.

B. C., Vancouver—City Council, reconstructing portion of Connaught Bridge, 720 ft. long, 56 ft. wide, steel with creosoted timber deck and bitulithic pavement, or alternate of rein.-con., from P. P. Brown, London Bldg., concrete $151,000 and $152,000; from Canadian Bridge Co., Hamilton, Ont., steel $138,138. Noted Mar. 13.

CONTRACTS AWARDED

Connecticut—State Hy. Comn., Hartford, 3 rein.-con. slabs in Canaan, to J. DeMichiel & Bro., 56 High St., Torrington, $14,692; rein.-con. T-beam bridge and 7-in. trap rock macadam approaches, in Easton, to Leverty & Hurley, 1014 Wood Ave., Bridgeport, $18,312. Noted Apr. 3.

North Carolina — See "Streets and Roads."

North Carolina—State Hy. Comn., Raleigh, **(S. P. means State Project)** rein.-con. bridges and culverts on S. P. 156, Martin Co., to J. A. Peterson, Montgomery, Ala., $65,690, on S. P. 721, Caldwell Co., to Harris & Spaulding, Lenoir, $41,162, on S. P. 56-B, Moore Co., to E. A. Wood & Co., Andrews, $42,500; rein.-con. bridge over Deep River on S. P. 404-C, Chatham Co., to Atlantic Bridge Co., Roanoke, Va., $68,389, bridge over Pee Dee River, S. P. 610, Anson and Richmond Counties, to Hardaway Contg. Co., 909 Elizabeth Ave., Charlotte, $291,500. Noted Apr. 10.

Alabama—State Hy. Dept., Montgomery, bridge on Federal Aid Project 136, Clay Co., to Nixon & Phillips, Lineville, $57,631; on Federal Aid Project 129, Sect. B, Henry Co., to J. K. and J. B. Miller, Baronton, Ga., $25,144. Noted Oct. 25.

Tennessee—Dept. Hys. & Pub. Wks., Nashville, one 40 ft. concrete span over Wartrace Creek, and four 40 ft. spans over Sulphur Fork Creek, Robertson Co., to Moore Constr. Co., Hopkinsville, Ky., $22,921; six 40 ft. spans, 20 ft. wide, over Bull Run River, at Sta. 96 plus 30, Federal Aid Project 82, Anderson Co., to Knoxville Roofing & Paving Co., Knoxville, $25,753. Noted Apr. 17.

O., Akron — Summit Co., 170 ft. steel girder bridge, 44 ft., over canal on Kenmore-Mogadore Rd., in Kenmore, also 66 ft. steel bridge, 22 ft., over Tinklers Creek on Cleveland-East Liverpool Rd. north of Twinsburg, to H. Gilbert, 19 North Martha Ave., $27,284 and $23,225 respectively, engrs. est. $27,980 and $30,000 respectively; concrete bridge over Furnace Run on Richfield-Hudson Rd., west of Richfield, to A. F. Wible, 789 Chalker St., $29,762, engrs. est. $32,180; 170 ft. concrete arch bridge, 26 ft., over Tinklers Creek on Cleveland-East Liverpool Rd., north of Twinsburg, to H. O. Putnam, Barberton, $31,100, engrs. est. $34,150.

O., Youngstown — Director Pub. Serv., steel superstructure for Belmont Ave. bridge, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., $104,798. Noted Mar. 13.

Neb., Grand Island—Hall Co., 4 concrete and steel bridges on Hastings-Grand Island Rd., Federal Aid Project 215, to Allied Constr. Co., 1803 Douglas St., Omaha, $118,880. Noted Mar. 27.

South Dakota—State Hy. Dept., Pierre, 2 bridges, total length 64 ft., on Federal Aid Project 167 A, Bon Homme Co., and 3 bridges, 106 ft., on Federal Aid Project 162, Haakon Co., to Federal Bridge Co., 1002 R. T. Bldg., Des Moines, Ia., $7,224 and $12,510 respectively; 5 bridges, 204 ft., on Federal Aid Project 95 A, Faulk Co., 120 ft. viaduct on Federal Aid Project 50 B, Sanborn Co., and 78 ft. viaduct on Federal Aid Project 171 A, Roberts Co., to Schreiber Eng. Co., Watertown, $22,076, $9,635 and $7,929 respectively; 30 ft. viaduct on Federal Aid Project 169, Pennington Co., to Concrete Eng. Co., Rapid City, $3,025; 2 bridges, 100 ft., on Federal Aid Project 145, Beadle Co., to Jahnig & Davis, Britton, $9,665. Noted Mar. 20.

Ark., Pine Bluff—Jefferson Co. 4 bridges over Plum Bayou on Plum Bayou Rd., one 100 ft. and three 40 ft. spans, rein.-con. and standard steel, to Luten Bridge Co., Mercantile Bldg., Knoxville, Tenn. $20,000. Noted Mar. 20.

Ore., Portland—Comrs. Multnomah Co., Court House, Sellwood Bridge, 1,880 ft., 5 spans and approaches, concrete substructure, steel and concrete superstructure, over Willamette River, to Union Bridge Co., Porter Bldg., $377,500, engrs. est. $350,000; Ross Island Bridge, 3,723 ft., 6 arch spans, concrete, over Willamette River, to Parker & Banfield, 62 East 3rd St., N., $1,960,316, engrs. est. $1,500,000; Burnside Bridge, 2,307 ft., 3 spans and approaches, steel superstructure, over Willamette River, to J. A. Tillman & Co., Seaside, $2,820,000, engrs. est. $3,000,000. Noted Mar. 6.

Dams

PROPOSED WORK

New York—See "Unclassified."

Ont., Almonte—Almonte Electric Light Comn. having plans prepared and soon takes bids concrete dam, here. $30,000. C. Barber & Sons, Meaford, engrs.

BIDS DESIRED

Tex., Mart—See "Waterworks."

CONTRACTS AWARDED

B. C., Powell River—Powell River Co., raising concrete dam and constructing pile wharf and sheds, to Armstrong, Morrison Co. Ltd., 543 Granville St., Vancouver, $350,000.

Railways

CONTRACTS AWARDED

Washington — Bloedel-Donovan Lumber Co., Bellingham, constructing 17 mi. logging railroad on Olympic Peninsula between Clallam Bay and Beaver Bench, incl. 150 ft. and 100 ft. truss bridges, and one 280 ft. tunnel, to P. Welch, Old Natl. Bank Bldg., Spokane. Noted Apr. 10.

California—See "Industrial Works under Fresno."

British Columbia—Canadian Natl. Ry., Windsor Sta., Montreal, Que., plans railroad from Derrholme at mile 58.3 on Barly Sound line to Cowichan Bay, 8 mi. $358,000, extending Barly Sound main line from mile 74 to 100, $348,300.

Quebec — Canadian Natl. Ry., Windsor St., Montreal, 6 mi. railroad from Donnacona to point on Natl. Transportation R.R., to Federal Constr. Co., 526 Victoria St., Montreal, $280,400.

Excavation, Drainage, Irrigation

PROPOSED WORK

Ia., Red Oak — Montgomery Co. (Red Oak) and Page Co. (Clarinda) had plans prepared joint drainage ditch from Federal road south of Villisca to Primary Rd. 18 at county line intersection west of Nodaway River. $23,000.

Tex., Wharton — Wharton Co. election Apr. 26, $680,000 bonds, drainage ditches, levees, etc. B. M. Griffith, Wharton, temporary engr.

Wash., Covington—Western Land & Irrigation Co. plans to irrigate 200 acres, $15,000, and $5,760 acres $50,000, involving 5 mi. main ditch and small electric power plant to develop 100 hp., near here.

Calif., Colusa—Jimeno Ranch, c/o G. Farnsworth, Colusa, had plans prepared 11,000 ft. canals, 5 ft. wide; 4,750 ft. of 36 in. pre-cast rein.-con. pipe line; one 14 ft., 13 sec.ft. capacity and one 10 in. 7 sec.ft. capacity pumping plants, each with maximum lift of about 33 ft., operated by one 100 hp. and one 50 hp. electric motors. $75,000. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, consult. engr.

Calif., Redlands—Moreno Mutual Water Co. having plans prepared diverting additional water from Santa Ana River through Bear Valley-Moreno Pipe Line to irrigate 5,000 acres, incl. dam to store 10,000 acre ft., also additional canals and laterals. Private plans.

Calif., Sacramento — Recl. Dist. 1660, California Fruit Bldg., had plans prepared double barrel concrete conduit under levee 3 x 5 ft. diam., 150 to 250 ft. long; furnishing and installing pumping plant, incl. six 24 in. vertical centrifugal double suction pumps, six 150 hp. motors, gate valves and pneumatic pressure system for operating valves. Pumping plant to discharge into concrete conduit. J. Crowley, dist. consult. engr.

BIDS DESIRED

N. Y., Buffalo—Apr. 18, by Comn. Pub. Wks., dredging and refilling trench across City Ship Canal at Michigan St., also trench across Buffalo River, installing 16 in. pipe in above. $25,000. B. J. Boyle, Municipal Bldg., comr.

N. Y., Buffalo—Apr. 22, by Commissioner Pub. Wks., Municipal Bldg., dredging Buffalo Inner Harbor to completed contract depth for maintenance of channel to June 30, 1925. To exceed $25,000. C. E. P. Babcock, Municipal Bldg., engr.

CONTRACTS AWARDED

New York—J. A. Delaney, comr. Docks, Pier "A" foot of Battery Pl., New York City, dredging channel, constructing dikes, and placing fill on west island in connection with improvement of Jamaica Bay, Queens Boro, Contrs. 1818 B and C, to W. H. Geoghegan Realty Co. Noted Mar. 6.

Ia., Audubon—Audubon Co., 899,503 cu. yd. excav. D. D. 4, to J. H. Boyce & Sons, Omaha, Neb., $0.07 per cu.yd. Est. cost $108,503.

Ia., Emmetsburg — Palo Alto Co. D. D. 147, furnishing 6,100 lin.ft. 20- to 36-in. tile for Sect. 1 and 7,900 lin.ft. of 8- to 24-in. tile for Sect. 2, to Graettinger Tile Wks., Graettinger, $10,547; labor, to Ceylon Cement Tile Co., Ceylon, Ia., $4,555. Noted Mar. 20.

Miss., Vicksburg — Warren Co. Levee Dist. dredging Muddy Bayou and digging channel 1 mi., etc., to [illegible] Co.,

Excavation, Drainage, Irrigation (Continued)

Exch. Bldg., Memphis, Tenn., $0.30 per cu.yd. Noted Mar. 27.

Ark., Jonesboro—Dist. 27, Craighead Co. one 7 mi. and one 2 mi. laterals in north east part of county, east of Brookland, and will empty into St. Francis River at Clauch, to A. V. Wills & Sons, Title Guaranty Bldg., St. Louis, Mo. Engrs. est. $40,000. Noted Mar. 27.

Ark., Pine Bluff—Consart D. D., 411,000 cu.yd. main canal, 270,000 cu.yd. lateral ditches, 173,000 cu.yd. new canal and 12.6 mi. cleaning deep bayou, to McWilliams Dredging Co., 1537 McCormick Bldg., Chicago, $137,000. Noted Mar. 20.

Tex., Austin—University of Texas, excavation for concrete stadium, to List Gifford Co., North Texas Bldg., Dallas, $25,000. Noted Jan. 31 under "Unclassified."

Ore., Bend — Jordan Valley Irrigation Dist., ditches, laterals and small headworks, to Morrison-Knudson, Railroad and Reclamation Aves., Boise, Idaho, $360,000. Engrs. est. $379,000.

Streets and Roads

PROPOSED WORK

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, received no bids Apr. 9, 75,000 gal. asphaltic oil for hot application upon streets to be designated in amounts of not less than 1,000 gal. at any time. Noted Apr. 3.

N. Y., Mohawk—Plans new pavements on various streets. $50,000-$60,000. A. J. Budlong, village pres.

N. Y., Norwich—Making plans paving Division and other streets. To exceed $25,000. E. F. Musson, city engr.

N. Y., St. Johnsville—Plans paving various streets. $60,000-$75,000. Address F. Waltamath, c/o Municipal Comn.

N. Y., Seneca Falls—Plans 1.2 mi. concrete and brick pavement. $70,032. E. P. Byrne, chn. Bd. Village Trustees.

N. J., New Brunswick — Middlesex Co. plans concrete paving 4 mi. Old Bridge-Mattawan Rd., $200,000, and 1 mi. road from Marshall school to Bound Brook, 18 ft. M. F. Larson, New Brunswick, engr.

N. J., Pennington—City plans concrete paving 1 mi. Main St., 35 ft. 6 in. $95,000. H. F. Harris, Court House, Trenton, engr. County and State aid.

Pa., Meyersdale — Boro. Council takes bids about May 1, paving 4,000 ft. Large St., incl. sewers and 1,500 ft. concrete and stone retaining wall. L. H. Rowe, boro. engr.

Tennessee—Tennessee Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading, etc., 5.52 mi. Lenoir City, Knox Co. Rd., 18 ft., Loudon Co. J. G. Creveling, highway comr.

Ky., Hazard—Perry Co. soon takes bids 5 mi. Kentenia Highway. $100,000.

Ky., Whitesburg—City soon takes bids constructing streets. $25,000.

O., New Philadelphia—Tuscarawas Co. takes bids in 30 days, improving ½ mi. Baltic St., 40 ft., in Sugar Creek, brick, $30,000; 2 mi. Dover-New Cumberland Rd., 20 ft., in Fairfield Twp., macadam, $50,000. C. A. Stingel, New Philadelphia, engr.

O., Steubenville—Plans paving Market St. $81,913. C. N. Teaff, Steubenville, engr.

O., Warren—Trumbull Co. plans ¾ mi. Austintown-Warren Rd., 16 ft., Weathersford Twp., penetrated bituminous macadam, $28,000; 3.3 mi. Niles-Warren River Rd., 18 ft., rein.-con. or brick on concrete, $125,000.

O., Warren — Trumbull Co. soon takes bids reconstructing 2.9 mi. Niles-Ashtabula-Inter-County Highway 150, present 10 ft. concrete to be widened to 16 ft. and covered with asphalt top, $68,000-$75,000, 3.3 mi. Warren-Sharon Intercounty Highway, present 13 ft. 2 in. brick to be widened to 18 ft. with asphalt top, $89,000, 6.3 mi. Warren-Salem Intercounty Highway, penetrated bituminous top, $140,000; paving about 1 mi. Perkins-Jones Rd., 18 ft., $31,000, and 1.2 mi. Austintown-Warren Rd., 18 ft., $50,000, rein.-con. or brick on concrete.

O., Youngstown — Mahoning Co. soon takes bids resurfacing and widening 1 mi. Lincoln Highway, from 16 to 20 ft. $40,000.

Michigan — State Hy. Dept., Lansing, plans grading and surfacing 1.5 mi. State Trunk Line Rd. 21-23, Shiawassee Co., concrete, sheet asphalt or bituminous concrete. G. C. Dillman, ch. engr.

Michigan—By State Hy. Dept., Lansing, takes bids about May 15, grading and surfacing 10.702 mi. State Trunk Line Rd. 28-8, B. Houghton Co., 105,312 cu.yd. excav., 29,235 tons stamp sand, 10,046 sq.yd. gravel, also 2.057 mi. State Trunk Line Rd. 28-11, Ontonagon Co., 5,618 tons stamp sand, and 19,306 sq.yd. gravel. G. C. Dillman, ch. engr.

Mich., Detroit—Plans paving streets with 3½ in. sheet asphalt, 2,300 sq.yd. St. Jean Ave. $13,800, 11,500 sq.yd. Thomas Ave. $68,470, 2,400 sq.yd. Sterritt Ave. $13,920, 12,000 sq.yd. Warren Ave. E. Sect. 1, $71,400, 35,000 sq.yd. Warren Ave. E. Sect. 2, $207,700, 40,000 sq.yd. Warren Ave. E. Sect. 3, $237,300, 15,500 sq.yd. American Ave. $91,310, 18,000 sq.yd. LaBelle Ave. $105,560, 1,600 sq.yd. Barry Ave. $4,850, paving 8 alleys with one course 6 in. concrete, $28,588. G. Jerome, city engr.

Ill., Champaign—Soon takes bids grading and concrete surfacing, concrete curb and gutter, Washington and Poplar Sts. $57,158. F. C. Lohman, City Hall, engr.

Ill., Galesburg — Plans paving, curbing and guttering South Cedar, East North and West North Sts., brick, asphalt filler, on concrete, $71,553. A. L. Richey, City Hall, engr.

Ill., Granite City—Soon takes bids grading and surfacing with brick on concrete or rein.-con., 17,500 ft. Washington Ave. and 24th St. $170,000. W. W. Kerch, 1st Natl. Bank Bldg., engr.

Kan., Coffeyville—City soon takes bids grading and surfacing with vertical fibre brick on 5-in. concrete, 3,600 ft. Elm, Beach, Washita, Roosevelt, West 9th, East 11th and 15th St. and 2 alleys, 30 ft. $35,000. C. Potteck, city clk.

Kan., Phillipsburg — Phillips Co. soon takes bids grading, etc., 8.86 mi. Federal Aid Project 204, 18 ft., incl. one 20 ft. and one 30 ft. bridge; 5.25 mi. Federal Aid Project 210, 20 ft., incl. one 30 ft. and one 90 ft. bridge. W. E. Freeman, co. engr.

Mo., Fornfelt—Takes bids in about 60 days grading and gravel surfacing 3.5 mi. general streets, 16 ft., $25,000.

Mo., Kirksville—Soon takes bids curbing and paving 12 blocks, rein.-con. B. Crabtree, Cameron, engr.

Mo., Odessa—Soon takes bids grading, concrete curbing, guttering and surfacing 3,200 ft. streets in down-town district, concrete or asphaltic concrete. $30,000.

Mo., St. Louis — Bd. Pub. Serv., 208 City Hall, soon takes bids paving 8,745 sq.yd. St. Louis Ave., willite on concrete, $50,000; concrete curbing, guttering and paving 14,465 sq.yd. Madison St., asphalt on concrete, $75,000; concrete sidewalks in Forest, Carondelet, Gravois and Benton Parks, $13,000. W. W. Horner, city engr.

Tex., Rock Springs—Edwards Co. making plans grading, hard surfacing and bridging 48 mi. road from point 4 mi. west of here to State Highway 30 in. Valverde Co., 18 ft. $404,260. W. E. Simpson Co., Natl. Bank Commerce Bldg., San Antonio, engrs.

Okla., Tahlequah — Plans grading and paving 8 blocks Shawnee and Muskogee Sts., 8,800 sq.yd. concrete, 4,900 lin.ft. curbing, 3,100 cu.yd. earth and 300 cu.yd. rock excav. $36,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Nevada—State Highway Comn., Carson City, having plans prepared gravel surfacing 18 mi. highway from Campbell to railroad section, Lander Co.; 10 mi. road from Eureka to county line, Eureka Co. G. W. Borden, state highway engr.

Oregon—State Hy. Dept., Portland, rejected bids improving Cove Island City Highway, Union Co. $276,000. Will revise and readvertise.

Calif., Monterey—Plans to vote on $27,000 bonds, paving portion Lighthouse Ave. H. D. Severance, city engr.

Calif., San Diego—See "Buildings."

Ont., Kitchener—Waterloo Co. plans 18,000 sq.yd. concrete pavements on county roads. $60,000. L. S. Lichty, County Bldg., engr.

Ont., Toronto—York Twp. plans concrete sidewalks with concrete curb on 2½ to 3 mi. Regent St., Atlas, Mulberry and Locusa Aves., $25,000. F. B. Goldike, 40 Jarvis St., Toronto, engr.

Ont., Toronto—Having plans prepared 10 mi. 4 ft. 6 in. to 8 ft. concrete sidewalks on following: Davenport Rd. $1,981, Anderson Ave. $14,024, Colen Ave. $14,450, Duplex Ave. $3,284, Eastbaume Ave. $14,116, Hillsdale Ave. $14,002, Oriole Parkway $7,181, Clendenan Ave. $3,059, St. Germain Ave. $3,564, Boulton Dr. $11,571, Cottingham Rd. $4 349, Glen Edyth Dr. $10,625, Roycraft Dr. $7,652; 75,000 sq.yd. asphalt pavements on concrete on following: Gloucester St. $24,918, Wabash Ave. $31,696, Dundas St. $47,806, Simpson Ave. $15,733, Orchard Park Blvd. $14,197, Fleet St. $263,715, Davenport Rd., Cottingham Rd. $12,387, Roycraft Dr., Glen Edyth Dr. $31,087, Boulton Dr. $30,708; grading Glen Edyth Dr. $8,312, Cottingham Rd. $2,341, Boulton Dr. $32,401, Roycroft Dr. $32,370, and lane between Delaware and Concord Aves. $12,250; concrete pavement on lane south of College St. $27,028. R. C. Harris, city engr.

Ont., Willowdale — North York Twp. plans gravel and macadam road work, $40,000. H. D. Goode, twp. clk.

BIDS DESIRED

Massachusetts—Apr. 22, by W. F. Williams, comr. Dept. Pub. Wks., Div. Highways, Boston, paving 27,465 ft. road, 20 ft., bituminous macadam, in Chelmsford, $250,000; reconstructing 14,308 ft. concrete road, 20 ft., in Lowell and Chelmsford $200,000.

Mass., North Adams—Apr. 18, by J. L. Temple, comr. Pub. Wks., paving West Main St., 12,500 cu.yd. excav., 4,000 cu.yd. concrete surfacing, 2,700 sq.yd. concrete sidewalks, etc. $60,000.

N. Y., Brooklyn—Apr. 23, by E. Riegelmann, boro pres., Boro Hall, asphalt paving Eldert Lane, Hubbard Pl., Ave. M, Quentin Rd., Bay 37th, East 7th, 56th, 78th, and 81st Sts.; grading, curbing and flagging East 7th and 81st Sts.; curbing and asphalt paving East 9th St.; recurbing and asphalt paving East 35th St.; grading Shepherd Ave.; curbing and flagging Shepherd Ave.

N. Y., Fulton—May 2, by Common Council, at office of M. C. Baker, city clk., asphaltic concrete paving, etc., West 4th and 5th Sts. H. S. Andrews, city engr.; adv. E. N.-R. Apr. 17.

N. Y., St. George—Apr. 22, by J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete curb and gutter on south side of Lincoln Ave.; concrete and dish gutters where not already done on both sides of Ocean Ave.; concrete curb with steel guard, etc. where not already done on Maryland Ave.; also grading Bay Terrace.

N. Y., Watertown — Apr. 28, concrete curbing, guttering and paving various streets. To exceed $25,000. P. B. Sutton, city engr. Noted Feb. 28.

N. J., Freehold—Apr. 23, by Monmouth Co., replacing gravel top and constructing slag base on 3.67 mi. Allentown-Imlaystown Rd. G. K. Allen, Jr., 60 Broad St., Red Bank, engr.

N. J., Newton—See "Material and Equipment."

Pa., Ebensburg — Apr. 25, by Comrs. Cambria Co., 3,463 ft. rein.-con. highway on Ebensburg-Carrolltown Rd., Cambria Twp. H. F. Dorr, Trust Bldg., engr.

Pa., Ebensburg—Apr. 25, by Boro. Council, curbing and paving 969.3 ft. rein.-con. pavements on Julian St. and Highland Ave. S. E. May, boro. engr.

Pa., Huntingdon—May 1, by Boro Council, paving 3,044 lin.ft. Warm Springs Ave., Moore and 6th Sts., one course rein.-con. J. W. Oates, boro. engr.

Pa., Red Lion—May 12, paving 19,000 sq.yd. streets, asphaltic, concrete, rein.-con. or sheet asphalt. J. A. Michels, boro. engr.; adv. E. N.-R. Apr. 17

Md., Baltimore—Apr. 23, by Bd. Awards, streets listed in Contr. 254-OANA, 22,085 sq.yd. concrete, $40,000; Contr. 255-OCNA, 18,240 sq.yd. concrete, $33,000. R. K. Compton, 214 East Lexington St., chn. paving comn.

Md., Somerset (Glen Echo, P. O.)—Apr. 24, by J. W. Stohlman, mayor, 328 Dorset Ave., Somerset, Chevy Chase, paving 1.37 mi., concrete; adv. E. N.-R. Apr. 17.

W. Va., Clarksburg—Apr. 21, by city at office D. H. Hamrick, clk., paving and improving Linden, Hewes and Broaddus Aves., Bway., Dodge Court, South 2nd, McDowell, Milford and College Sts., also sewering Grove Ave., 11,000 lin.ft. curbing, 4,325 cu.yd. grading, 2,510 cu.yd. rein.-con., 740 cu.yd. concrete, 5,000 sq.yd. brick paving, 400 lin.ft. sanitary sewers. T. S. Long, city engr.

W. Va., Huntington—Apr. 24, Bd. City Comrs., grading, curbing and paving Auburn, Camden and Piedmont Rds., Monroe, Jefferson, Hite and 9th Aves., 5th and 34th Sts., etc. A. B. Maupin, city engr.

N. C., Wilson — Apr. 30, by S. Lucas, mayor and Bd. Comrs. paving, curbing, guttering, sewers and water mains in various streets. R. D. Gladding, Wilson, engr.; adv. Apr. 20.

S. C., Anderson—Apr. 22, by Anderson Co. Hy. Comn., 31,343 cu.yd. common and 2,000 cu.yd. rock excav., 14,702 cu.yd. top soil surfacing, 47.53 cu.yd. concrete, also bridge over Beaver creek, bids on 3 types rein.-con. consists of five 22 ft. spans, creosoted timber framed bent type, eight 14 ft. spans; creosoted timber pile bent, eight 14 ft. spans. E. D. Sloan, Court House, Greenville, engr.

Ga., Clayton—Raburn Co. taking bids surfacing road from Habersham Co. line to North Carolina State line. To exceed $75,000.

Streets and Roads (Continued)

Alabama — May 5, by State Hy. Dept., Montgomery, 4.989 mi. Alexander-Jackson Gap Rd., Federal Aid Project 78, Sects. B and C, Tallapoosa Co., 39.71 acres clearing, 110,540 cu.yd. earth and 31,878 cu.yd. rock excav., 16,799 sta.yd. overhaul, 14,750 cu.yd. gravel, 8,205 lin.ft. 18- to 24-in. pipe, 448.78 cu.yd. concrete, 37,334 lb. reinforcing, etc. W. S. Keller, state highway engr.

Miss., Greenwood — Apr. 25, by Comn. Council, at City Hall, 54,244 sq.yd. 3 in. vertical fibre brick on 4 in. Portland concrete, 54,244 sq.yd. 4 in. Puzzolan slag concrete base, 19,963 cu.yd. grading, etc. $150,000. W. S. Hawkins, City Hall, engr.

La., Bastrop—Apr. 29, by Police Jury Morehouse Parish, 14.2 mi. Route 7, Sects. A and C.

O., Columbus—Apr. 22, by W. H. Duffy, dir. Pub. Serv., asphalt paving and widening 1,908 ft. Grant Ave., from 32 to 44 ft. wide. $36,494.

O., Mansfield—Apr. 23, by Secretary Bd. Control, improving Glenn Ave., North Diamond, East 1st, McPherson, East 5th, Bowman, Buffalo and Elizabeth Sts., 27,500 sq.yd. grading, 23,600 sq.yd. paving, 9,500 lin.ft. concrete curb and gutter. W. C. Statler, city engr.

Ind., Columbia City—Apr. 28, by City Council, paving Chicago St., 3,260 sq.yd. concrete on concrete. $26,181; Elm St., 10,700 sq.yd. concrete on concrete, 7,237 lin.ft. concrete curb and brick gutter, $56,291.

Ind., Ft. Wayne—Apr. 22, by Comrs. Allen Co., improving Marion Twp. Rd. 2. $35,000.

Ind., Goshen—Apr. 19, by Comrs. Elkhart Co., grading and gravel surfacing 15,753 ft. Twp. Rd. E-1, 24 ft. $27,800. C. L. Kinney, Goshen, engr.

Ind., Indianapolis—Apr. 25, by Comrs. Marion Co., paving East 10th St., 33,446 sq.yd. concrete on concrete. $87,226. J. J. Griffith, Indianapolis, co. engr.

Ind., South Bend—Apr. 28, by St. Joseph Co., paving with concrete on concrete 37,056 sq.yd. J. C. Rerick Rd., $91,360, 36,858 sq.yd. C. E. Keltner Rd., $95,850, 41,532 sq.yd. A. Crofat Rd., $107,985. P. R. Gillin, South Bend, engr.

Michigan—Apr. 19, by R. W. Roberts, Schirmer Bldg., Saginaw, engr. for Saginaw Co. Rd. Comn., grading and surfacing 3.92 mi. Assessment Dist. Rd. 36, 2 course gravel, also 4.047 mi. Assessment Dist. Rd. 55 B, stone macadam surface treated.

Michigan—Apr. 23, by State Hy. Dept. at office Comrs. Berrien Co., St. Joseph, grading and surfacing State Trunk Line Rd. 58-4, 26,120 cu.yd. excav., 62,408 sq. yd. concrete, bituminous concrete or sheet asphalt.

Michigan—Apr. 24, by State Hy. Dept., at office Comrs. Monroe Co. (Monroe), shaping and surfacing 2.841 mi. Federal Aid Project 50, Sect. B2, 33,334 sq.yd. asphalt, concrete or bituminous concrete.

Michigan—Apr. 24, by State Hy. Dept. at office Comrs. Monroe Co., Monroe, shaping and surfacing 1.356 mi. Federal Aid Project 50, Sect. B4, 15,851 sq.yd. asphalt, concrete or bituminous concrete.

Michigan—Apr. 28, by State Hy. Dept., at office Oakland Co. Rd. Comrs., Pontiac, grading and surfacing 0.398 mi. Federal Aid Project 70, C, 9,403 sq.yd. asphalt, concrete or bituminous concrete, also 0.939 mi. Federal Aid Project 70, C, 10.556 sq.yd. asphalt, concrete or bituminous concrete.

Michigan—Apr. 28, by State Hy. Dept. at office Livingston Co. Rd. Comrs., Howell, grading and surfacing 1.392 mi. Federal Aid Project 15, A, Livingston Co., 16,330 sq.yd. asphalt, concrete or bituminous concrete.

Michigan—Apr. 29, by State Hy. Dept., at office R. Comn. Wexford Co. at Cadillac, grading and gravel surfacing 2.856 mi. State Trunk Line Rd. 42-1, Sects. A and B, 26,725 sq.yd. gravel, also 0.492 mi. State Trunk Line Rd. 55-4, Sect. B, 6,352 sq.yd. asphaltic concrete or bituminous concrete.

Michigan—Apr. 30, at office H. J. Davies, superv. engr., State Hy. Dept., at Escanaba, grading and surfacing 5.02 mi. Federal Aid Project 169, Marquette Co., 47,177 sq. yd. gravel or waterbound macadam; paving with gravel, waterbound macadam or bituminous macadam 121,204 sq.yd. State Trunk Line Rd., 25-5, Sects. A and B, Alger Co., 55,552 sq.yd. State Trunk Line Rd. 25-7, Schoolcraft Co., 132,478 sq.yd. State Trunk Line Rd. 25-8, Schoolcraft Co., 9,950 sq.yd. State Trunk Line Rd. 25-2, Sect. B, Chippewa Co., 125,131 sq.yd. State Trunk Line Rd. 25-15, Sects. B and C, Chippewa Co., 37,492 sq.yd. State Trunk Line Rd. 25-13, Schoolcraft Co.

Michigan—May 1, by State Hy. Dept. at office Comrs. Calhoun Co., Marshall, grading and surfacing State Trunk Line Rd. 29-12, 21,285 sq.yd. concrete, bituminous concrete or sheet asphalt. Cement furnished by State.

Michigan—May 1, by State Hy. Dept., at office Iron Co. Rd. Comrs., Crystal Falls, grading and surfacing 1.932 mi. State Trunk Line Rd. 12-42 B, 20,712 sq.yd. bituminous macadam.

Michigan—May 2, by State Hy. Dept. at office Ontonagon Co. Rd. Comrs., Ontonagon, grading and surfacing 7.34 mi. State Trunk Line Rd. 26-12, 19,953 tons stamp sand, or 68,564 sq.yd. gravel, etc.

Michigan—May 2, by State Hy. Dept., at office Comrs. Huron Co., (Bad Axe), grading and gravel surfacing 4.038 mi. State Trunk Line Rd. 27-19, Huron Co., 38,527 sq.yd. gravel, 15,664 cu.yd. excav.

Michigan—May 5, by State Hy. Dept., at office Ogemaw Co. Rd. Comrs., West Branch, grading and surfacing 0.493 mi. State Trunk Line Rd. 55-13, 5,786 sq.yd. asphalt, concrete or bituminous concrete.

Michigan—May 6, by State Hy. Dept., at office Gogebic Co. Rd. Comrs., Bessemer, grading and gravel surfacing 7.463 mi. State Trunk Line Rd. 12-41, 32,727 cu.yd. excav., 71,311 sq.yd. gravel.

Michigan—May 6, by State Hy. Dept., at office Comrs. Cass Co. (Cassapolis), grading and surfacing 2.763 mi. State Trunk Line Rd. 40-5, Sects. A and B, 29,325 sq. yd. asphalt, concrete or bituminous concrete, 9,355 cu.yd. excav.

Michigan—May 7, by State Hy. Dept., at office Comrs. Roscommon Co. (Roscommon), grading and surfacing 6.474 mi. State Trunk Line Rd. 76-4, Sect. C, 60,719 sq.yd. gravel, 23,154 cu.yd. excav.

Wis., Two Rivers — Apr. 21, by J. Doleysh, city clk., new paving, etc., various streets (1) 14,250 sq.yd. one course concrete, two course concrete or vibrolithic concrete, 2,850 lin.ft. concrete curb and gutter, 4,000 cu.yd. earth excav., (2) 5,500 sq.yd. tar macadam or asphaltic macadam, 1,800 cu.yd. earth, 3,650 lin.ft. concrete curb and gutter. D. H. Ames, City Hall, engr.

Minn., Faribault — May 6, by F. M. Kaisersatt, aud. Rice Co., gravel surfacing 4.25 mi. Job 2401, State Rd. 48; 4 mi. Job 2402, State Rd. 53; 8.5 mi. Job 2406, State Rd. 30; 6 mi. Job 2408, State Rd. 28; 7.3 mi. Job 2409, State Rd. 22; 8.65 mi. Job 2410, State Rd. 6; 3 mi. Job 2411, State Rd. 29, $60,000. J. C. McElherne, Faribault, engr.

Minn., Granite Falls—Apr. 24, by G. H. Wilson, aud. Yellow Medicine Co., gravel surfacing 13 mi. Job 2403, State Rd. 9, 13,000 cu.yd. gravel; 4 mi. Job 2405, State Rd. 4, 4,000 cu.yd. gravel; 6 mi. Job 2406, State Rd. 5, 6,000 cu.yd. excav. $25,000. F. Van Krevelen, Granite Falls, engr.

Minn., Ortonville—May 6, by D. B. Hudson, aud. Big Stone Co., 7 mi. Job 2401, State Rd. B, 37,400 cu.yd. excav., 36,000 cu.yd. overhaul, 870 lin.ft portable culverts; 5 mi Job 2402, State Road A, 48,000 cu.yd. excav., 1,100 lin.ft. portable culverts. $25,000. F. W. Engdahl, Ortonville, engr.

Minn., St. Paul—Apr. 28, by G. J. Ries, aud. Ramsey Co., Project 24-51, grading and paving White Bear Rd., Whitaker St., Bald Eagle Blvd. and Park Ave., 37,000 sq. yd. concrete or asphaltic concrete on concrete base, etc. $85,000. P. N. Coates, 900 Guardian Life Bldg., co. surv. Noted Apr. 3.

Minn., White Bear—Apr. 28, by State Hy. Dept., St. Paul, improving State Project 1-36, Sect. 1, here, between Auto Club and Stewart Ave., 15,100 sq.yd. paving, various types, 11,000 cu.yd. excav., 7,800 lin.ft. concrete curb and gutter. $50,000. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Neb., Hastings — Apr. 28, paving 10 blocks. $40,000. P. T. Naylor, city engr.

South Dakota—May 13 and 14 by State Hy. Dept., Pierre, grading 292 mi. highways and building bridges F. D. Hudgins, state engr.

South Dakota — May 14, by State Hy. Dept., Pierre, graveling (**F. A. P. means Federal Aid Project**) 6.19 mi. F. A. P. 20B, Walworth Co., 6.06 mi. F. A. P. 50C, Sanborn Co., 13.31 mi. F. A P. 61B, Brule and Aurora Counties, 6.58 mi. F. A. P. 86, Sanborn Co., 13.41 mi. F. A. P. 90, Hutchinson Co., 11.06 mi. F. A. P. 98, Lincoln Co., 15.14 mi. F. A. P. 116, Hutchinson Co., 9.94 mi. F. A. P. 122, Deuel Co., 9.03 mi. F. A. P. 129, Turner Co., 5.46 mi. F. A. P. 137, Lake Co., 7.47 mi. F. A. P. 140, Lawrence and Meade Counties, 7.82 mi. F. A. P. 144, Union Co., 173,400 cu.yd. gravel. F. D. Hudgins, state engr.

North Dakota—May 6, by State Hy. Comn., Bismarck, paving 1.5 mi. road between Mandan and Missouri River Bridge. $60,000.

Missouri—Apr. 22, by State Hy. Dept., Jefferson City, improving highways in Benton, Cooper, Morgan, Perry and Madison Counties, 180,256 sq.yd. gravel, 131,543 cu.yd. earth and 38,037 cu.yd. rock excav.; 5 mi. road in Cedar Co., 35,328 sq.yd. gravel; road in Webster, Barry, Dade, Cooper, Lafayette, Clark and Linn Counties, 702,708 cu.yd. earth and 71,115 cu.yd. rock excav. B. H. Piepmeier, state highway engr. Noted Apr. 10.

Mo., St. Louis — May 6, by Bd. Pub. Serv., 208 City Hall, paving 32,610 sq.yd. Ohio St., Bell, Chouteau and Manchester Aves., asphalt, $130,720, 2,645 sq.yd. Beacon St., asphalt or warrenite, $14,720, 1,785 sq.yd. Wyoming St., warrenite, $9,600, 12,450 sq.yd. Arlington, Margaretta and San Francisco Sts., bitulithic, $66,040; grading and asphalt paving 2,700 sq.yd. Sulphur St., $18,520. W. W. Horner, city engr.

Ark., Rogers — May 6, by Bd. Comrs. Rogers Paving Impvt. Dist. 6, c/o E. C. Lone, secy., grading, curbing, guttering, paving and storm sewers in various streets. E. F. Peterson, Texarkana, engr.; adv. E. N.-R. Apr. 17.

Tex., Baird—Apr. 25, by V. B. Gilbert, judge Callahan Co., grading, bridging and surfacing with bituminous macadam 9.62 mi. Sect. A, Bankhead Highway, Federal Aid Project 52-A, 18 ft. $259,068. Noted Mar. 27.

Tex., Corpus Christi—May 6, by H. R. Sutherland, judge Nueces Co. gravel surfacing and bituminous topping 5.23 mi. highway, 18 ft. $70,000. C. E. Cook, co. engr.

Tex., Memphis—Apr. 29, by A. C. Hoffman, judge Hall Co., grading and bridging 5.5 mi. State Highway 18, State Aid Project 473-B, 24 ft. $41,390. C. L. Hasie, Box 168, co. engr. Noted Apr. 10.

Colorado—Apr. 22, by State Hy. Dept., Denver, gravel surfacing 12.046 mi. Federal Aid Project 248-A, 15,300 cu.yd. borrow fill, 42,000 cu.yd. earth and 1,600 cu.yd. rock excav., 444 cu.yd. concrete, 126,800 lin.ft. gravel, etc. $134,789. L. D. Blauvelt, State Office Bldg., Denver, engr.

Wash., Chehalis — Apr. 25, by Comrs. Lewis Co., paving Permanent Highway 12 and Pike Hill Gap, 14,001 sq.yd. concrete, also 100 ft. span on concrete piles and abutments. R. L. Greene, Chehalis, engr.

California — May 5, by State Highway Comn., Sacramento, paving 8.3 mi. highway between Vacaville and Batavia, Solano Co., 0.4 mi. cement concrete, 7.9 mi. asphaltic concrete; grading 9.4 mi. between east boundary and San Juan Bridge, Orange Co. R. M. Morton, state highway engr.

Ont., London — Apr. 26, by C. Talbot, engr., County Bldg., 2 mi. concrete on Sarnia Rd. for Suburban Rds. Comn., $80,000.

B. C., Vancouver — Apr. 29, by City Clerk, paving street in front on Canadian Natl. Depot, Main St. $80,000. F. L. Fellowes, city engr.

BIDS RECEIVED

New Hampshire—State Hy. Comn., Concord, Apr. 9, Project 190 in Keene, from R. J. Keating, Fitchburg, Mass., 885 cu.yd. B. C. gravel $2.25, 649 cu.yd. S. C. gravel $2.75, etc., total $16,068; Project 186, in Milford, from A. D. Bridges Sons Inc., Hazardville, Conn., 762 tons S. C. bituminous macadam, $4.50, bridge at station 13-50, etc., $15,266; Project 188, in Walpole, from P. C. Ricci, Burlington, Vt., 837 cu. yd. B. C. gravel $2.75, 614 cu.yd. S. C. gravel $3.25, etc., total $13,864; Project 188 in Walpole, (2 sections), from R. E. Bull, 151 Harrison Ave., Fitchburg, Mass., 837 cu.yd. B. C. gravel $2.80, 614 cu.yd. S. C. gravel $3, etc., total $14,973. Noted Apr. 3.

Connecticut — State Hy. Comn., Hartford, Apr. 7, paving 4,550 ft. road in Pomfret, 3-in. bituminous macadam on 5-in. stone base, from Peckham Rd. Corp., 6 Crane Ave., White Plains, N. Y., $20,007; 3,200 ft. Main St. in East Hartford, sheet asphalt, from E. Balf Co., 14 Haynes St., Hartford, $74,653 (for oil asphalt) and $78,760 (for Bermudez asphalt); 900 ft. in Cxford, 7-in. water bound macadam, and 2 concrete bridges, from F. B. Hastings, Bridgeport, $15,020; 1,440 ft. in Seymour, rein.-con., from T. J. Fleming, 27 Chestnut Ave., Waterburg, $18,056; 3,540 ft. Orange Ave. in West Haven, concrete, and 18,283 ft. in Clinton and Westbrook, rein.-con., from C. W. Blakeslee & Son, 58 Waverly St., New Haven, $24,823 and $190,294 respectively; 16,300 ft. Boston Post Rd., concrete, in Darien, from Bridgeport Constr. Co., 355 Ridgefield Ave., Bridgeport, $206,930; 24,568 ft. South Canaan Rd. in Canaan and North Canaan, from J. DeMichiel & Bro., 58 High St.,

Streets and Roads (Continued)

Torrington, $141,572; 3,326 ft. road, waterbound macadam, and concrete bridge on Middletown Ave., New Haven, from D. V. Firone & Co., New Haven, $45,359; 8,800 ft. Whisconeer Hill Rd., in Brookfield and Newtown, 8-in. native stone macadam, from W. J. Montgomery & Co., Inc., 72 Canner St., New Haven, $44,671. Noted Apr. 3.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Apr. 9, grading, curbing and flagging Clarendon Rd., from T. B. Scott, 671 Halsey St., $2,874; grading sidewalk space, curbing and flagging Quentin Rd., from G. Mandatto, 129 29th St., $2,016, 80th St., from R. Lynster, 1364 Sterling Pl., $1,085; grading 60 ft. width centrally located Empire Blvd., from C. Bennett Contg. Co., 414 Rutland Rd., $29,820; asphalt paving West 37th St., from M. J. O'Hara, 1228 Park Ave., New York, $7,565. Noted Apr. 3.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Apr. 8, grading, regrading, curbing, etc., Bway., from Garafano Contg. Co., $54,387; grading, curbing, laying sidewalks and crosswalks, on Tryon Ave., from Interstate Contg. Co., $11,187; sheet asphalt paving boro line of Bronx, from C. D. Beckwith, Inc., 2875 Bway., $159,720; paving West 188th St. and Walton Ave., both sheet asphalt, also Bailey Ave., bituminous concrete, from Brusstar Constr. Co., Harlem River and 150th St., $4,654, $32,303 and $52,481 respectively; grading, curbing, laying sidewalks, etc., on Worthen St., from Clementi Contg. Co., 1195 Spoffard St., $15,490. Noted Apr. 3.

New Jersey—State Hy. Dept., Trenton, Apr. 14, concrete paving 29,505 sq.yd. Route 9, Sect. 12, Plainfield to Westfield, Union Co., from T. Camillo & Co., 335 Spring St., Westfield, $122,946; 67,905 sq. yd. Route 6, Sect. 14, Bridgeton to Marlboro, Cumberland Co., from Acchione & Camuso Co., 804 South 12th St., Phila., $255,284. Noted Mar. 27.

Delaware—State Hy. Dept., Dover, constructing 0.265 mi. Marsh Rd. Underpass, Contr. CN-7A, from Van Auken & Robbins, Thendara, N. Y., 2,500 cu.yd. excav. $3, 1,400 cu.yd. rock excav. $3, 660 cu.yd. stone concrete $19.05 or 600 cu.yd. slag concrete $19.05, etc., total $27,943; 0.337 mi. Hickman Rd., Contr. CN-18, 1,700 cu. yd. excav. $2.20, (a) 620 cu.yd. stone concrete $16.50 or (b) 620 cu.yd. slag concrete $16, etc., total (a) $17,392 (b) $17,082; 1.925 mi. Summit Bridge-Kirkwood Rd., Contr. CN-19, 8,700 cu.yd. excav. $1.32, (a) 3,350 cu.yd. concrete $15.96 or (b) 3,350 cu.yd. slag concrete $15.22, etc., totals (a) $76,453 (b) $73,974; steel superstructure, Seaford Bridge, Contr. 42-C, from A. S. Fox, 1033 West 3rd St., Dayton, O., $29,690. Noted Mar. 20.

Md., Baltimore — Bd. Awards, paving roads, Contr. 251-OA, 11,400 sq.yd. asphalt, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $45,184; Contr. 253-OANA, 12,625 sq.yd. concrete, from Aiello Constr. Co., Gough and 4th Sts., $32,006. Noted Apr. 3.

Kentucky—State Hy. Dept., Frankfort, shaping and paving with bank gravel 19.22 mi. Henderson-Madisonville Rd., 18 ft., Federal Aid Project 34, Sect. F, Webster Co., from A. J. Hoffman, North Adams, Mich., $242,063. Noted Mar. 20.

O., Cleveland—Improving with (a) brick (b) asphalt (c) concrete (1) East 169th St. (2) Sandusky Ave. (3) Camden Ave. (1-3 inclusive involves 5,663 lin.ft. stone curb, 5,940 lin.ft. 4 in. drain tile gutter, 11,950 cu.yd. excav., 8,408 sq.yd. vitr. brick on concrete), (4) East 135th St. (5) East 143rd St. (6) East 126th St. (7) Milverton Rd. (4-7 inclusive involves 7,764 lin.ft. stone curb, 7,250 lin.ft. 4 in. drain tile gutter, 9,350 lin.ft. stone or concrete sidewalk, 9,640 sq.yd. vitr. brick, 2,235 sq.yd. concrete, 11,875 sq.yd. concrete base), (8) East 130th St. (9) East 169th St. (10) East 139th St. (11) East 137th St. (8-11 inclusive involves 14,806 lin.ft. stone curb, 13,640 cu.yd. earth excav., 23,230 sq.yd. asphalt or brick on concrete, from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, (a1) $31,400 (b4) $23,923 (c5) $10,497 (b8) $28,873 (b9) $20,424 (b11) $37,032; W. E. Hugh, Pavers Exch., (a2) $9,146; Roehl Bros., Lorain Ave., (a3) $16,796; Gould & Maybach, 16123 Saranec Rd., (a5) $12,679; Rieley Bros., The Arcade, (6) $17,594; A. M. Pejsa, 3161 Derbyshire Rd., (7) $4,336 (b10) $26,368 (a11) $42,790; Baldwin Bros., 4500 Euclid Ave., (a8) $32,308. Noted Mar. 27.

O., St. Clairsville—Belmont Co. paving Temperanceville-Baileys Mills Rd., tar bound macadam, from B. C. Stringer, Rayland, $77,541.

Ind., Terre Haute—Vigo Co., paving J. E. Milks Rd., from J. L. Weeks, Farmersburg, $38,699. Engrs. est. $50,231

Ind., Wabash—Wabash Co., 8,004 ft. Wischel Rd., 18 ft., from Republic Asphalt Paving Co., 801 Schwind Bldg., Dayton, O., $33,999. Engrs. est. $35,736. Noted Apr. 3.

Michigan — State Hy. Dept., Lansing, grading and surfacing 6.649 mi. State Trunk Line Rd. 19-4, E, St. Clair Co., from C. G. Milne, 717 Holden St., Saginaw, $153,260; 4.663 mi. State Trunk Line Rd. 19-4, B, C and D, St. Clair Co., from C. W. Whitely, Marlette, $112,958; 1.872 mi. State Trunk Line Rd. 27-17, A, St. Clair Co., from J. Porath, 903 Free Press Bldg., Detroit, $40,539, 2.123 mi. State Trunk Line Rd. 27-4, B, St. Clair Co. and 2.731 mi. State Trunk Line Rd. 27-15, A, St. Clair Co., from J. H. Baker & Son, Port Huron, $37,634 and $55,572 respectively. Noted Mar. 27.

Michigan—State Hy. Dept., at office Rd. Comn. Allegan Co., at Allegan, grading and surfacing 6.24 mi. State Trunk Line Rd. 89-5, Allegan Co., 59,503 sq.yd. gravel, from E. W. oVsburg, Comstock, $79,814.

Mich., Detroit—Paving with 3½ in. sheet asphalt on 8 in. concrete from Detroit Asphalt Paving Co., 20 McGraw Bldg., 4,900 sq.yd. Atkinson Ave. $15,032, 1,400 sq.yd. Boston Ave. $8,030, 3,800 sq.yd. Domine Ave. $20,834, 11,000 sq.yd. Trenton Ave. Sect. 1, $57,518, 6,300 sq.yd. Trenton Ave., Sect. 2, $33,475, 3,300 sq.yd. Genoa Ave. $16,305, 4,600 sq.yd. Ironwood Ave. $25,352, 1,800 sq.yd. LeMay Ave. $9,313, 3,200 sq.yd. Lonyo Rd. $16,997, 1,400 sq. yd. Leland St. $8,578, 2,700 sq.yd. Lakewood Ave. $14,059, 3,700 sq.yd. Marcus Ave. $20,653, 3,500 sq.yd. Savery Ave. $20,104; from Cleveland Trinidad Paving Co., 402 Hammond Bldg., 1,400 sq.yd. Brighton Ave. $7,346, 4,100 sq.yd. Robinwood Ave. $20,818, 3,000 sq.yd. Eason Ave. $15,191, 1,050 sq.yd. Grove Ave. $5,650, 6,100 sq.yd. Hilldale Ave. $38,096, 5,100 sq.yd. Savannah Ave. $26,314.

Ill., Chicago—South Park Comrs., paving on South Park Ave., from R. F. Conway Co., 133 West Washington St., $459,844; sidewalks, curbs and gutters from Simpson Constr. Co., 133 West Washington St., $82,884.

Ia., Sioux City—Paving (a) 21,400 sq.yd. West 7th St. (b) 6,280 sq.yd. between street car tracks, from Booth & Olson, 120 Virginia St., Sioux City, concrete (a) $2 per sq.yd. (b) $4 per sq.yd.; M. L. Flinn, 218 Grain Exch. Bldg., Sioux City, vibrolithic concrete $2.49 per cu.yd.

Wisconsin—State Hy. Comn., Madison, concrete surfacing, etc., Sect. A Snyderville Rd., Federal Aid Project 342, Outagamie Co., from Koepke Bros., Appleton, 10,827 cu.yd. earth excav. $0.79, 16,732 sq.yd. concrete surfacing $1.39, etc., total $53,263; Chilton-Hilbert Rd., State Project 1049, Calumet Co., from Franz Radlaff Co., Plymouth, 4,125 cu.yd. earth excav. $0.80, 18,316 sq.yd. concrete $1.43, etc., total $33,966. Noted Apr. 3.

Wis., Fond du Lac—Fond du Lac Co., concrete surfacing, etc., Ladoga-Brandon-Ripon Rd., Sects. A and B, from A. Kramp, Berlin, 28,800 cu.yd. earth excav. $0.80, 44,320 sq.yd. concrete $1.32, 47,220 sq.yd. concrete $1.33, etc., total $184,158. Noted Mar. 27.

Wis., Hudson—Paving 8,956 sq.yd. various streets, from C. T. Welch Co., 703 1st Natl.-Soo Line Bldg., Minneapolis, Minn., rein.-con. 6 in. $23,400, 7 in. $25,888, Class A asphalt concrete 5 in. oil $30,187, 6 in. oil $32,227; from General Contg. Co., 1222 Plymouth Bldg., Minneapolis, asphaltic concrete, Class B (bitulithic) 5 in. lake $30,890, 6 in. lake $32,920; from J. Noreen, Hudson, 5 in. brick $35,506; from A. Larson & Co., Eau Claire, vibrolithic, 6 in. $26,183, 7 in. $28,402. Noted Mar. 27.

Wis., La Crosse—Paving, etc. 22,092 sq. yd. 14th, 15th, 20th, Ferry, Rose, and St. Andrews Sts. and alley, from T. E. Wooley, 148 West Ave. S., brick $3.27 per sq.yd., asphalt macadam $2.57, from White Constr. Co., 68 Wisconsin St., Milwaukee, asphaltic concrete $2.70 and $2.90; 1,689 sq.yd. State, Pearl and Main Sts., from T. E. Wooley, 148 West Ave. S., brick $7,427, from General Contg. Co., 1222 Plymouth Bldg., Minneapolis, Minn., asphaltic concrete, $5,608, E. Rasmussen, Ft. Dodge, Ia., warrenite bitulithic $5,827; 2,427 sq. yd. rein.-con. driveways around St. Rose viaduct approaches, from T. J. Malzahn, Majestic Bldg., $7,800. Noted Apr. 3.

Kan., Iola—Grading and surfacing with one course concrete 2.036 mi. Federal Aid Project 168, Sect. A, Allen Co., 18 ft., from Fry Bros., Iola, $70,210. Noted Mar. 20.

Colorado—State Hy. Dept., Denver, concrete paving 0.787 mi. Federal Aid Project 246-B, Pueblo Co., from W. A. Colt & Son, Las Animas, $29,454, engrs. est. $28,411; 2.944 mi. Federal Aid Project 255-B, Morgan Co., from W. F. Pigg & Son, 534 Commonwealth Bldg., Denver, concrete $92,486, A. D. Dobson Co., 1st Nat. Bank, Lincoln, Neb., bituminous on concrete, $117,351. Noted Apr. 10.

Oregon—State Hy. Dept., Salem, Apr. 2, grading and paving 4.5 mi. Jacksonville-Medford Sect. of Blue Ledge Market Rd., 18 ft., bituminous concrete, also 4.5 mi. Ruch-Summit Sect. of above Rd., 18 ft., bitulithic concrete, both Jackson Co., from S. S. Schell, Oakland, Calif., $78,175 and $78,557 respectively; 1.34 and 1.24 mi. Perry-Oro-Dell La Grand Sect. of Old Oregon Trail, Union Co., 60 ft. right of way, from Morrison-Knudson, Railroad and Reclamation Aves., Boise, Idaho, concrete pipe $35,030, galvanized iron corrugated pipe $34,963.

Wash., Seattle—Bd. Pub. Wks., Apr. 4, grading and paving West Spokane St., from J. L. Smith, Pioneer Bldg., 7,575 sq. yd. 8-in. concrete $2.20, 440 ft. asphaltic concrete curb $0.70, 2,495 ft. concrete curbing $.40, 65,000 cu.yd. earth excav. $0.45, etc., total $56,486, engrs. est. $59,752.

Wash., Mt. Vernon—Comrs. Skagit Co., Mar. 25, paving Wickersham Rd., Sect. 2, 70,000 sq.yd. 7-in. concrete, from Riddle & Hawkins, Bellingham, $244,814. Engrs. est. $250,000.

Wash., Seattle—Bd. Pub. Wks., paving 2nd Ave. N. et al., from J. L. Smith, Pioneer Bldg., 173,000 sq.yd. 6-in. concrete $1.80, 1,775 ft. 5 in. asphaltic concrete curbing $0.60, 9,260 ft. 5-in. concrete guttering $0.40, 600 sq.yd. concrete sidewalk $1.70 4,000 cu.yd. earth excav. $0.70, total $52,933. Engrs. est. $54,540.

Calif., Los Angeles—Los Angeles Co. improving portion Western Ave. from G. R. Curtis, 2440 East 26th St., 3,626 cu.yd. excav. $1, shaping 10,305 sq.yd. $0.15, removing 954 cu.yd. old disintegrated granite $1, 10,305 sq.yd. sub-base $0.30, 10,305 sq. yd. asphaltic concrete $1.40, 10,305 sq.yd. Topeka surface $0.74. Noted Apr. 3.

CONTRACTS AWARDED

New Hampshire—State Hy. Dept., Concord, paving Projects 158 and 175, in Derry, 25,480 sq.yd. concrete, to Winslow & Cummings, Nashua, $98.696. Noted Apr. 3.

Vermont—State Hy. Dept., Montpelier, paving 1.2 mi. Gateway Rd., Federal Aid Project 50, in Fairhaven, 2,264 cu.yd. rein.-con., 4,300 cu.yd. earth excav., to Frissel & Snyder Inc., 176 West St., Gardner, Mass., $44,995; 2.25 mi. Milton-St. Albans Rd., Federal Aid Project 52A, in Georgia, 1,872 cu.yd. bituminous macadam, 2,850 cu.yd. broken stone base, etc., to A. Florentine, Plattsburg, N. Y., $56,440.

Connecticut—State Hy. Comn., Hartford, paving 4,550 ft. road in Pomfret, 3-in. bituminous macadam on 5-in. stone base, to Peckham Rd. Corp., 6 Crane Ave., White Plains, N. Y., $20,007; 3,200 ft. Main St. in East Hartford, sheet asphalt, to E. Balf Co., 14 Haynes St., Hartford, $74,653 (for oil asphalt) 900 ft. in. Oxford, 7-in. water bound macadam, and 2 concrete bridges, to F. B. Hastings, Bridgeport, $15,020; 1,440 ft. in Seymour, rein.-con., to T. J. Fleming, 27 Chestnut Ave., Waterbury, $18,056; 3,540 ft. Orange Ave. in West Haven, concrete, and 18,283 ft. in Clinton and Westbrook, rein.-con., to C. W. Blakeslee & Son, 58 Waverly St., New Haven, $24,823 and $190,294 respectively; 16,300 ft. Boston Post Rd., concrete, in Darien, to Bridgeport Constr. Co., 355 Ridgefield Ave., Bridgeport, $206,930; 24,568 ft. South Canaan Rd. in Canaan and North Canaan, to J. DeMichiel & Bro., 58 High St., Torrington, $141,572; 3,326 ft. road, waterbound macadam, and concrete bridge on Middletown Ave., New Haven, to D. V. Frione & Co., New Haven, $45,359; 8,800 ft. Whisconeer Hill Rd., in Brookfield and Newtown, 8-in. native stone macadam, to W. J. Montgomery & Co., Inc., 72 Canner St., New Haven, $44,671. Noted Apr. 3.

Conn., New London—Paving 1,438 ft. Howard St., concrete, and 400 ft. State St., hillside brick on 5-in. concrete, to N. Benvenuti & Sons, 74 Goshen St., $20,000 and $15,000 respectively. Noted Mar. 6.

N. Y., Albany—Bd. Contr. & Supply repaving Western and Madison Aves., to M. F. Dollard, 36 State St., $37,253 and $252,802 respectively. Engrs. ests. $45,000 and $275,000 respectively. Noted Apr. 3.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to Cranford Co., 52 9th St., asphalt paving Bay Ridge Ave. $12,942, Ave. J $4,745, Mansfield Pl. $12,180, 40th St. $8,691, 48th St. $3,525, curbing, flagging and asphalt paving Lefferts Ave. $22,782, curbing and asphalt paving Mansfield Pl. $13,610; to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., asphalt paving Bay 10th St. $8,748, East 40th St. $7,396, 10th Ave. $10,237, West 12th St. $8,760; to Borough Asphalt Co., 1301 Metropolitan Ave., asphalt paving Belmont

Streets and Roads (Continued)

Ave. 23,090, Thatford Ave. $8,876; to L. Mangieri, 190 31st St., grading, curbing and flagging Canal Ave., etc. $7,965; to F. Persicano, 350 Fulton St., grading, curbing and flagging Ave. O, etc. $9,155. Schenectady Ave. $5,005, 19th Ave. $3,610. Noted Apr. 10.

N. Y., Brooklyn — E. Riegelmann, boro pres., Boro Hall, to Borough Asphalt Co., 1301 Metropolitan Ave., asphalt paving Blake Ave. $3,967, East 34th St. $8,052, Hegeman Ave. $14,336, Union St. $4,638; to W. E. Carberry, 45 South Elliott Pl., grading sidewalk space, curbing and flagging Dahill Rd. $2,384, grading curbing and flagging East 37th St. $6,736; to W. H. Geoghegan Realty Co., grading Flatbush Ave. $376,980; to L. Mangieri, 190 31st St., grading sidewalk space, curbing and flagging 7th Ave. $1,023. Noted Apr. 3.

N. J., Freehold—Monmouth Co., rein.-con. paving 2.53 mi. Sect. 2, Farmingdale-Manasquan Rd., to Freehold Constr. Co., Freehold, $105,270. Noted Mar. 20.

N. J., Oakhurst—Ocean Twp., paving Sunset, Corlies and Edgemont Aves., etc., to Union Paving Co., 31st and Locust Sts., Phila., $58,000. Noted Mar. 20.

Pennsylvania—State Hy. Dept., Harrisburg, concrete highways **(R. means Route and A. means Application)** 65,500 sq.yd. R. 76, Beaver Co., to D. W. Challis & Sons, Sewickley, $368,032; 46,900 sq.yd. R. 47, Sect. 1, Redford Co., to W. C. Guncheon & Co., Masonic Bldg., Harrisburg, $238,907; 34,660 sq.yd. R. 62, Sect. 4, Cambria Co., to McClure & Bigner, 424 Swank Bldg., Johnstown, $194,351; 27,200 sq.yd. A. 2801-2, Berks Co., to General Paving Co., B & B Bldg., Allentown, $101,362; R. 271, Sect. 2, Erie Co., to J. McCarthy Constr. Co., Bessemer, $138,493; 56,720 sq. yd. Routes 223 and 314, Indiana Co., to Booth & Flinn, 1942 Forbes St., Pittsburgh, $332,513; 25,055 sq.yd. A. 1623, Lawrence Co., to E. A. Freshwater & Sons, Chester, W. Va., and Painesville, O., $110,323; 65,774 sq.yd. R. 168, Monroe Co., to Souder Constr. Co., 349 Woolworth Bldg., Lancaster, $256,916; 16,121 sq.yd. R. 208, Venango Co., to Jamieson & Narlee, Fredonia, $81,091; 37,681 sq.yd. R. 95, Sect. 2, Warren Co., to J. C. Devine Co., Alliance, O., $165,349; 17,100 sq.yd. R. 234, A. 2043, Clearfield Co, to G. I. Thompson, Clearfield, $74,760; 31,566 sq.yd. R. 62, Sect. 5, Cambria Co., to Clarks Bros. Constr. Co., Hastings, $164,486; 19,492 sq. yd. R. 181 Allegheny Co., to A. G. Rothey, Elizabeth, $104,770; 20,750 sq.yd. A. 650, Chester Co., to Lincoln Constr. Co., Stratford, $90,872; 63,236 sq.yd. R. 223, Sect. 1, Indiana Co., to Rood Constr. Co., Lyric Theatre Bldg., Butler, $321,476; 66,000 sq. yd. R. 95 Warren Co., to W. B. Constr. Co., 909 Cascade St., Erie, $315,278; 8,586 sq. yd. R. 268, Washington Co., and 29,700 sq. yd. R. 268, Greene Co., to Jones Constr. Co., Salem, O., $55,261 and $231,926 respectively; 10,482 sq.yd. R. 223, Indiana Co., and grading R. 106, Sect. 2, Cameron Co., 160,330 cu.yd. excav., to M. Bennett & Sons, Indiana, $44,248 and $197,388 respectively. Noted Mar. 20.

Pa., Cresson — Paving 20,000 sq.yd. various streets, bitulithic asphalt on 5 in. concrete, to Warren Bros., 202 North 3rd St., Harrisburg, $94,750.

W. Va., Fairmont—Marion Co., grading and bituminous macadam surfacing 2.5 mi. Morgantown-Bridgeport Turnpike, Winfield Div., to W. R. Bainbridge, Fairmont, $58,039. Noted Mar. 20.

North Carolina—State Hy. Comn., Raleigh, grading and topsoiling **(S. P. means State Project)** 17.51 mi. S. P. 156, Martin Co., to N. L. Teer, Durham, $129,179, 13.75 mi. S. P. 721, Caldwell Co., to J. T. Plott, Greensboro, $112,185; grading and asphaltic paving on concrete 11.22 mi. S. P. 330, Columbus Co., to Coastal Constr. Co., Florence, S. C., $331,728, 12 mi. S. P. 686-B, Stanly Co., to Noll Constr. Co., Charlotte, $376,156; grading and concrete paving 10.68 mi. S. P. 537-B, Guilford Co., to Ziegler & Dalton Constr. Co., Junction City, Kan., $358,023, 8.23 mi. S. P. 421-B, Franklin Co., to A. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $257,418; grading and bridging 8.56 mi. S. P. 102, Beaufort Co., to H. M. Beasley, Lumberton, $45,472; grading 12.61 mi. S. P. 720, Caldwell Co., to W. C. Carter, Mebane, $61,473; grading and topsoiling 12.16 mi. S. P. 162, Nash Co., and grading 11.96 mi. S. P. 568, Moore Co., to J. F. Mulligan Constr. Co., North Wilkesboro, $44,642 and $40,814 respectively. Noted Apr. 10.

Fla., Pensacola—Escambia Co. 6 mi. of 18 ft. concrete road, near here, to Speed-Parker, Inc., Norton Bldg., Louisville, $187,000. Engrs. est. $200,000.

Alabama—State Hy. Dept., Montgomery, 14.293 mi. Helfin-Ashland Rd., Project 136, Clay Co., to Nixon & Phillips, Lineville, $137,213; 20.921 mi. Abbeville-Houston Co. Rd., Project 129, Sect. B, Henry Co., to W. M. Bentley, Bentley, $129,483. Noted Mar. 17.

Ala., Troy—Grading and asphalt paving 20 blocks North, Three Notch and other streets, 30 ft., to Couch Constr. Co., Troy, $300,000.

Miss., Belzoni — Street improvements, Projects A, B, C and D, to Owens & Gaddis, Jackson. Noted Mar. 13.

Tennessee—Tennessee Dept. Hys. & Pub. Wks., Nashville, grading and paving with waterbound macadam 5 mi. Tate Springs-Hamblen Co. Rd., Grainger Co., to W. C. Anderson, Harriman, $35,745, with cement concrete 8.32 mi. Blountsville-Bristol Rd., 18 ft., Federal Aid Project 98, Sullivan Co., to Smith Bros. Constr. Co., Amer. Exch. Bank Bldg., Dallas, Tex., $256,979, with gravel 19.03 mi. Henderson-McNairy Co. Rd., State Aid Project 159, Chester Co., incl. timber bridge and corrugated metal pipe, to G. Bourgois, Cairo, Ill., $147,956, with rock asphalt on crushed stone, 4.1 mi. road from Harriman to Federal Aid Project 85, 18 ft., State Aid Project 161, Roane Co., to J. F. Marcum Co., 103½ South Gray St., Knoxville, $110,517, with bituminous macadam on crushed stone, 8.72 mi. New Market-Knox Co. Rd., 16 ft., State Aid Project 133, Jefferson Co., to Baird-Eller Constr. Co., Nashville, $238,407, with bituminous concrete on concrete 3.68 mi. Nashville-National Cemetery Rd., 24 ft., Federal Aid Project 206, Davidson Co., to Texas Road Co., Dallas County Bank Bldg., Dallas, Tex., $145,467; grading 8.09 mi. Clinton-Knox Co. Rd., 18 ft., Federal Aid Project 82, Anderson Co., to Smith & Creech Constr. Co., Title Guaranty Bldg., St. Louis, Mo., $119,721, 3.07 mi. Morristown-Grainger Co. Rd., 16 ft., State Aid Project 160, Hamblen Co., to R. S. Freeman Co., Knoxville, $35,390, 5.13 mi. Smithville-White Co. Rd., De Kalb Co., to Congers & Elwood, McMinnville, $42,147; surfacing with bituminous macadam 3.5 mi. Overton Co.-Obey River Rd., 16 ft., State Aid Project 162, Pickett Co., to Boyd Williams, Murfreesboro, $43,111. Noted Mar. 20.

Tenn., Tullahoma—City will construct 10 mi. gravel and asphalt streets, by day labor. $40,000. Noted Nov. 15.

O., Canton—Bd. Control, paving 18th St. N. W., vertical fibre brick, to R. D. Salisbury, Akron, $34,704, engrs. est. $35,000; 19th St. N. W., trinidad asphalt, to Burd Constr. Co., 25th St. N. E., $28,889, engrs. est. $30,000; 8th St. N. W., texaco asphalt, to Wise Bros., Canton, $75,743, engrs. est. $80,000; Market Ave. S., asphalt, to Garaux Bros., Co., Massillon Rd., $119,581, engrs. est. $125,000. Noted Apr. 3.

O., Cleveland—Improving Nathaniel Ave., to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $19,373; Clearlare Rd., to H. G. Herring, Pavers Exch., $17,379. Work involves 5,590 lin.ft. stone curb and 4 in. drain tile gutter, 4,400 cu.yd. earth excav., 5,305 sq.yd. vitr. brick on concrete. Noted Apr. 10.

O., Ravenna — Portage Co., improving Sect. "A" Intercounty Highway 16, 20 ft. wide, brick, to J. L. McCormick, Ravenna, $141,937. Engrs. est. $150,000.

Ind., Albion—Noble Co., hard surfacing 6,448 ft. O. F. Miller Rd., 18 ft., to Twitchell & Barrows, Angola, $34,115, engrs. est. $40,225; Joseph McCoy Rd., to G. D. Adair, Albion, $28,600, engrs. est. $33,906.

Michigan — State Hy. Dept., Lansing, grading and surfacing with concrete 3.04 mi. State Trunk Line Rd. 13-44 Sects. A and B, St. Joseph Co., to W. H. Fredericks, Coldwater, $62,294. Noted Apr. 10.

Michigan — State Hy. Dept., Lansing, shaping and surfacing 4.25 mi. Federal Aid Project 63, Sect. B, Bay Co., 44,602 sq.yd. asphalt, concrete or bituminous concrete, to R. Miller, 502 West Jane St., Bay City, $67,210. Noted Mar. 13.

Mich., Detroit—Paving with 3½ in. sheet asphalt on 8 in. concrete, to Detroit Asphalt Paving Co., 20 McGraw Bldg., Coplin Ave. $8,668, Devereaux Ave. $5,980, Holmur Ave. $24,140, Homedale Ave. $15,347, Kentucky Ave. $14,530, Marlborough Ave. $15,829, Park Grove $26,754, Roselawn Ave. $35,946, Six Mile Rd. $70,075; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., Glendale Ave. $29,147, Lawrence Ave. $20,729; to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., Mitchell Ave. $39,067. Noted Apr. 3.

Mich., Detroit—Grading and paving alleys with one course concrete, to T. E. Currie, 20 McGraw Bldg., Alley 1859 $11,848, Alley 1860 $10,220; to R. J. Powelson & Co., 6415 Iroquois Ave., Alley 1861 $2,634, Alley 1863 $4,672, Alley 1866 $3,430, Alley 1868 $8,411, Alley 1877 $2,994; to Bishop & Weir, 1305 Lafayette Bldg., Alley 1862 $1,873, Alley 1865 $1,159, Alley 1869 $3,557, Alley 1870 $1,314, Alley 1872 $6,612, Alley 1874 $4,165; to Otis Cement Constr. Co., 806 Hammond Bldg., Alley 1864 $2,121, Alley 1871 $3,884, Alley 1873 $2,106, Alley 1875 $1,458, Alley 1876 $3,636, Alley 1878 $2,927.

Ill., Urbana—Champaign Co., 6.25 mi. Sect. 38-15 D, and 16.51 mi. Sects. 41 and 54-15D, to H. C. Finley Constr. Co., Hoopeston, $90,639 and $232,711 respectively, engrs. est. $86,725 and $232,342 respectively; 4.66 mi. Sect. 43-15D, to W. C. Meneely Co., Decatur, $65,096, engrs. est. $63,234; 8 bridges on Sects. 41B, 43B and 54B, to Acme Engineers, Decatur, $29,800, engrs. est. $34,427. Noted Mar. 27.

Wisconsin—State Hy. Comn., at div. office 2, Milwaukee, concrete surfacing, etc. Truesdale-Somers Rd., Federal Aid Project 378-A and Somers-Sylvania Rd., Federal Aid Project 378-B, to J. R. Griffith, 1500 9th St., Racine, $97,764; Lake Shore Rd., Sects. A and B, Sheboygan Co., to Peppard, Burrill & Lynch, 311 16th St., Milwaukee, $218,445. Noted Apr. 3.

Wis., Elkhorn — Walworth Co. concrete surfacing, etc., Whitewater-Elkhorn Rd., to Lampert Constr. Co., 11 Algoma St., Oshkosh, 97,852 sq.yd. concrete $1.06, 49,566 cu.yd. earth excav. $0.67, 5,000 cu.yd. loose rock $1.25, etc. Noted Apr. 3.

Ia., Alden—Paving 7,955 sq.yd. various streets, vibrolithic concrete, to Dearborn Constr. Co., Waterloo, $30,354. Noted Mar. 6.

Ia., Cedar Falls—Paving 35 blocks asphalt concrete, to Bryant Paving Co., 807 Black Hawk Bank Bldg., Waterloo, $2.27 per sq.yd., total $79,105.

Ia., Iowa City—For 34,000 sq.yd. brick and concrete paving, 19,000 lin.ft. concrete curbing, to W. Horriban Contg. Co., Iowa City, $124,000.

Ia., Nevada — Paving various streets, 40,300 sq.yd. concrete paving, 1,500 lin.ft. concrete header, 50 cast iron inlets, 46 catch basins, to O'Rourke Eng. Co., 1215 Mulberry St., Des Moines, $105,539. Noted Apr. 3.

Ia., Mt. Pleasant—Paving 53,680 sq.yd., brick and bitulithic concrete, 38,900 lin.ft. combined curb and gutter, 705 lin.ft. 8- to 15-in. vitr. storm sewers, etc., to McCarthy Constr. Co., Davenport.

Ia., Sioux City—Paving West 7th St., to Booth & Olson, 120 Virginia St., 21,400 sq. yd. at $2 per sq.yd., 6,280 sq.yd. between street car tracks $4. Noted Apr. 17.

Ia., Sioux City—Paving 4th St., 6 in. concrete, to P. C. Hansen & Son, 1422 Court St., Sioux City, 13,900 sq.yd. straight paving $2.06 per sq.yd., 3,965 sq.yd. between car tracks, $2.48.

Minn., Duluth — St. Louis Co., paving Thomson Hill Rd. from Worden St. north, 15,289 sq.yd. concrete, 6,000 lin.ft. concrete curb, to D. H. Clough & Co., 405 Palladio Bldg., $50,165; Eveleth-Gilbert Rd., 20,940 sq.yd. concrete, 8,900 lin.ft. concrete curb, to E. W. Coons Co., Hibbing, $57,688.

Minn., Grand Rapids—Itasca Co., Cutfoot Forestry Project, Div. B, 13.47 mi., 73,716 cu.yd. earth excav., 322 cu.yd. loose rock and 80 cu.yd. solid rock excav., etc., to S. H. Adams & Son, Long Prairie, $27,415; 2,178 lin.ft. portable culverts, to Berger Mfg. Co., 1701 North East Bway., Minneapolis, $2,502.

Minn., Mantorville—Dodge Co., Job 2303, State Rd. 1, 85,452 cu.yd. earth and 100 cu.yd. loose rock excav., to J. Brown Constr. Co., Madison Lake, $32,850; Job 2401, State Rd. 5, 66,500 cu.yd. excav., etc., one 50 ft. low truss bridge, to O'Malley & Irybour, 509 Globe Bldg., Minneapolis, $21,444. Noted Mar. 20.

Minn., St. Paul — H. W. Austin, city purch. agt., paving Mississippi River Blvd. from end of present paving to Cretin and Portland Aves. to point 304 ft. west of West 7th St., 72,827 sq.yd. asphaltic concrete, 972 sq.yd. reset asphaltic concrete, etc., to Fielding & Shepley, 216 University Ave., $272,949; Phalen Parkway-East Lake Shore Dr. between bath-house and Larpenteur Ave., and Phalen Park Roadway from East Lake Shore Dr. at southerly end of lake to Maryland St., 16,598 sq.yd. Class A and 8,668 sq.yd. Class B asphaltic concrete, and 2,980 sq.yd. 7 in. rein.-con., to Hanlon & Okes, 338 Lumber Exchange, Minneapolis, $98,831. Noted Mar. 13.

Streets and Roads (Continued)

Minn., St. Paul—Ramsey Co., improving Upper Afton Rd., 32,014 cu.yd. excav., 64,421 cu.yd. overhaul, to Wewers & Mielke, St. Paul, (Daytons Bluff, Route 4), $14,109; culverts to Berger Mfg. Co., 1701 North East Bway., Minneapolis, $960. Bids rejected for gravel surfacing, will be done by force account together with improving Division St. from north city limits of White Bear village to Park Ave., in Bald Eagle. Noted Mar. 20.

Neb., Lincoln—Paving, curbing and guttering in Dists. 564, 412, 574 and 579, to Cochran Constr. Co., 1st Natl. Bank Bldg., $17,415; Dist. 573 to Roberts Constr. Co., 1st Natl. Bank Bldg., $8,073; Dist. 571 to Abel Constr. Co., Terminal Bldg., $8,979.

Minn., Sandstone—State Hy. Dept., St. Paul, grading and concrete paving State Project 1-44, Sect. 2, Div. A, Federal Aid 1, between here and Friesland, 33,000 cu.yd. excav., 51,000 sq.yd. paving to Nolan Bros., 18 North 2nd St., Minneapolis, $145,000; monolithic culverts to Morris Constr. Co., Morris, $17,400.

Kan., Topeka—Grading and surfacing 43 blocks, 2 in. asphaltic concrete on 7 in. concrete, to Kaw Paving Co., N. E. Bldg., Topeka, $261,625. Noted Apr. 3.

Neb., Omaha—Clerk Douglas Co., paving 2.49 mi. Federal Aid Project 20 C, Lincoln Highway, brick on concrete, to J. J. Parks Constr. Co., 4 Elks Bldg., $101,953.

Neb., Schuyler—Paving Dists. 2, 3 and 4, 18,788 sq.yd. sheet asphalt, 8,900 cu.yd. grading, to A. H. Reed Constr. Co., Omaha, $61,320.

Wyo., Casper—Improving East 2nd St., to Warren Constr. Co., Casper, 14,350 sq.yd. 4 in. bituminous concrete with 2 in. warrenite bitullithic top, $2.62, 2,600 cu.yd. excav., including preparing subgrade $1.45, etc., total $56,224.

Ark., Blytheville—Paving, concrete curbing, etc. 10 mi. various streets, to J. H. Rouse, Cape Girardeau, Mo. $100,000.

Ark., Blytheville—Mississippi Co., grading and concrete work Dist. 1, to H. H. Hall Constr. Co., East St. Louis, Ill., $100,000.

Ark., Little Rock—Paving and grading in Street Dist. 354, to M. D. L. Cook, 315 Southern Trust Bldg., 9,800 sy.yd. 2 in. warrenite $1.54, 4 in. concrete base $1.15, grading $0.75 per cu.yd.

Tex., Brownsville—Cameron Co. concrete paving 3 mi. road between Harlingen and Combes Sts., 18 ft., to Dodds & Wedegartner, San Benito, $78,348. Noted Mar. 20.

Tex., Ft. Worth—Paving 26,250 sq.yd. Vickery Blvd., 2½ in. brick on concrete, 9,920 cu.yd. curb and gutter, 5,540 cu.yd. excav., to Valient & Toomey, F & M Bldg., $2.75 per sq.yd.

Tex., Glen Rose—Somerval Co., grading, gravel surfacing and bridging 12.35 mi. State Highway 68, State Aid Project 474, 81,190 cu.yd. roadway, 46,158 cu.yd. borrow, 8,618 cu.yd. loose and 8,362 cu.yd. rock excav., 1,473 cu.yd. concrete, 134,240 lb. reinforcing and 152,500 lb. structural steel, 22,660 cu.yd. gravel, to Texas Road Co., Mercantile Bank Bldg., Dallas, $110,661. Noted Apr. 10.

Tex., Greenville—Hunt Co., gravel subbase, waterbound macadam base and inverted penetration top on 5.3 mi. State Highway 39, State Aid Project 379, 10,344 cu.yd. crushed stone, 7,724 cu.yd. gravel sub-base, 2,068 cu.yd. crushed stone cover material, etc., to Cocke & Turner, Marshall, $30,500. Engrs. est. $75,000. Noted Feb. 14.

Okla., McAllister—Grading and paving 5 blocks Madison, Monroe and Harrison Sts., 11,830 sq.yd. concrete, 5,500 lin.ft. curbing, 3,200 cu.yd. excav., to Altman Rogers Co., McAlester, $38,860. Noted Apr. 3.

Wash., Seattle—Bd. Pub. Wks., paving 2nd Ave. N. et al., 173,000 sq.yd. 6-in. concrete, etc., to J. L. Smith, Pioneer Bldg., $52,933. Engrs. est $54,540. Noted Apr. 17.

Wash., Tacoma—Paving Portland Ave. from Bay St. to Fairbanks St., 15,840 sq. yd. concrete, 8,538 lin.ft. concrete curb and gutter, 4,048 cu.yd. earth excav., to J. Warter Sr., 631 North Fife St., $73,446. Engrs. est. $74,415. Noted Mar. 27.

Oregon—State Hy. Comn., Salem, grading 6.04 mi. Mill Gulch Sect. of Baker-Unity Highway, 60 ft., Baker Co., to A. D. Kern, Exch. Bldg., Portland, $151,008; grading and surfacing 2.33 mi. Roosevelt Highway, 60 ft. right-of-way, Curry Co., to Johnson Contg. Co., Exch. Bldg., Portland, cedar culverts $77,770.

California—State Highway Comn., Sacramento, improving 3.7 mi. highway between Milpitas and Coyote Creek, paving with asphaltic concrete and widening with waterbound macadam shoulders, to Federal Paving Co., New Standard Oil Bldg., San Francisco, $86,768 (using state plant). Noted Apr. 3.

Calif., Fullerton—Improving East Santa Ave., 207,836 sq.ft. 1½ in. Warrenite on 2½ in. bituminous, 544,305 sq.ft. 1½ in. pavement on 2½ in., 38,400 sq.ft. resurfacing, 9,442 ft. curbs, etc., to Los Angeles Paving Co., 2900 Santa Fe Ave., Los Angeles, $183,000.

Calif., Oakland—Improving portion 5th St., grading and paving, 2 in. Warrenite-bitulithic on 6 in. concrete, etc., to Bates & Borland, Bank of Savings Bldg., $80,265. Noted Jan. 31.

Calif., San Francisco—Improving 48th Ave. between Lawton and Santiago St., also Ortega St. between 48th Ave. and Great Highway, to A. J. Raisch Impvt. Co., 46 Kearney St., $116,684; 48th Ave. between Santiago and Taraval Sts., to C. B. Eaton, 715 Ocean Ave., $8,967. Former bids reconsidered. Noted Apr. 10.

Ont., Kitchener—S. Cassel, clk. Waterloo Co., 3 mi. concrete pavements, to Lichty Bros., Wellesley, paving from Heidelburg to Martins Corners $1.98 per sq.yd., and from Baden to Phillipsburg $2.04 and $2.36 per sq.yd., to Paul Bergmann, Waterloo, east of Preston, $2 per sq.yd.

Ont., London—Will build 5 mi. cement and asphalt roads by day labor, under direction W. P. Near, city engr. $300,000.

Ont., Ottawa—Asphalt paving Carling Ave., to O'Learys Ltd., Rideau St., $31,262.

Industrial Works

PROPOSED WORK

N. H., Manchester—Manchester Traction, Light & Power Co., 46 Hanover St., plans to improve existing water power plants at Garvins Falls on Merrimack River and Kellys Falls on Piscataquog River. Work incl. removing 4 horizontal units and substituting 2 vertical units, modifying building at Garvins Falls, and installing vertical turbine at Kellys Falls. Stone & Webster, Inc., 147 Milk St., Boston, engrs.

Mass., Brookline (Boston P. O.)—Machine Shop, etc.—G. O'Riordan, 5 Chelsea St., Charlestown (Boston P. O.), having plans prepared by H. F. Bryant, 234 Washington St., 1 story, 185 x 250 ft. machine shop and garage, brick and concrete, 161 Harvard St., here.

Mass., Lawrence—Machine Shop, etc.—City having plans prepared by J. Broadhurst, 45 Broadway, 2 story, 125 x 150 ft., machine shop and garage, brick and concrete, $100,000. W. T. Rochefort, mayor.

Mass., Peabody—Machine Shop—Danvers Bleachery having plans prepared by Smith & Walker, 80 Boylston St., Boston, 2 story, 50 x 150 ft., brick and concrete. $75,000. Noted Mar. 6.

N. Y., Brooklyn—Plant—Brooklyn Boro Gas Co., 2909 South 17th St., having plans prepared by Bloch & Hesse, archts. and engrs., 18 East 41st St., New York, 2 story, 200 x 200 ft., rein.-con. and brick, plain foundation, Coney Island Ave. $250,000.

N. Y., Colliers (Colliersville P. O.)—Station—New York State Gas & Electric Corp., 123 South Cayuga St., Ithaca, plans transformer station, here. $450,000-$500,000.

N. Y., Schenectady—Shop—Amer. Locomotive Co., North Jay St., plans pattern and carpentry shop. $350,000.

Pa., Lewistown—Plant—Overhead Door Co., Hartford, Ind., plans plant here. $40,000.

N. C., Winston-Salem—Freight Station—Southern Ry. Co., Southern Bldg., Wash., D. C., plans new freight station, here. $150,000.

Georgia—Mill—Vestal Lumber & Mfg. Co., Maryville Park, Knoxville, Tenn., purchased site in Southern Georgia and plans saw mill. $100,000.

La., Monroe—Paper Mill—Great Southern Lumber Co., Bogalusa, having preliminary plans prepared paper mill near here. $2,000,000.

Tenn., Chattanooga—Factory—Southern Cotton & Paper Co. plans additions to plant. $150,000. M. Reynolds, pres.

O., Canton—Factory—Canton Bridge Co. plans 1 story addition, Belden Ave. and 10th St. $40,000.

O., Cleveland—Laundry—White City Wet Wash Laundry Co., c/o H. Kaplin, 2618 East 65th St., having plans prepared by M. Altschuld, 5116 Woodland Ave., 1 story, 70 x 110 ft., brick and steel addition. $40,000.

O., Cleveland—Foundry—Bowler Fdry. Co., 1688 Columbus Rd., had plans prepared by A. G. Simon, 716 Hippodrome Bldg., 1 story, 90 x 203 ft., 40 x 100 ft. 100 x 146 ft., brick and steel, East 49th St. $250,000.

Ind., Paoli — Plant — Columbus Wood Turning Co., Crothersville, plans plant here. $50,000.

Ind., Rockport—Plant—Rockport Sanitary Pottery Co. plans plant. $100,000.

Mich., Iron Mountain—Laundry—C. R. Jorgenson, having plans prepared by O. E. Anderson, Iron River, 2 story, 37 x 100 ft. brick and tile, plain foundation. $40,000.

Mich., River Rouge—Steel Mill—Ford Motor Co., Highland Park, (Detroit P. O.), having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story, 544 x 1,320 ft. rein.-con., brick and steel mill.

Ill., Chicago—Printing Plant—W. F. Hall Printing Co., 466 West Superior St., having plans prepared by Weiss & Neistadt, 53 West Jackson Blvd., 1 story, 500 x 700 ft., fireproof, Diversey and Kilpatrick Sts. $1,000,000.

Wis., Manitowoc—Cold Storage—Northern Wisconsin Produce Co., 6th and Quay Sts., plans 2 story, brick and concrete, plain foundation, 6th St. $40,000.

Wis., West Bend—Shop—W. Warnkey, Main St., had plans prepared by Federal Eng. Co., engrs., 444 Milwaukee St., Milwaukee, 2 story, 34 x 72 ft., brick and concrete, plain foundation. $40,000.

Mo., St. Louis—Sub-station—Union Electric Light & Power Co., 12th and Locust Sts., plans rein.-con. and brick, equal to 2 story, 40 x 140 ft., 8th St. $160,000.

Mo., South West City—Light Plant—See "Waterworks."

Okla., Deer Creek—Power Plant—Blackwell High Line Co., Blackwell, plans power plant here, with transmission lines to neighboring cities. $60,000. R. W. Porter, Blackwell, engr.

Okla., Frederick—Plant—City had preliminary plans made oil engine electric light plant. Election soon to vote on $75,000 bonds. Engineer not selected.

Okla., Oklahoma City—Service Station—Ford Motor Co., Highland Park, Detroit, Mich., had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, Mich., 1 story, 100 x 200 ft., brick, steel and concrete addition, plain foundation, Main and Francis Sts.

Okla., Texola—Plant—See "Waterworks."

Oregon—Sub-station, etc.—See "Unclassified under Oregon and Washington."

Calif., Princeton—Substation—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, having plans prepared, Rice substation, rein.-con., here. $40,000. Private plans.

Calif., Sacramento—Gas Plant—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, having preliminary plans prepared extensions to gas plant, 2nd and I Sts., here. To exceed $50,000. Private plans.

Calif., San Diego—Crushing Plant—See "Buildings."

Calif., Santa Barbara—Power Plant—City had estimates made hydro-electric power plant, at Gibraltar Lake, one unit station delivering 180 kw. per day, utilizing 3 m.g. with 499 ft. head. $40,000. H. Nunn, city mgr.

Ontario—Provincial Government, Ottawa, voted $22,000,000 to Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, for hydro-electric power development and construction this year as follows: Chippawa-Queenston plant, two 55,000 hp. units, generators, turbines, Niagara System, $13,000,000; investigation, survey and design of 2nd Queenston-Chippawa Canal, $100,000; steam power plant construction as standbys, $5,000,000; Morrisburg development in connection with St. Lawrence Canal Scheme, $1,500,000; Georgian Bay System, $750,000; Muskosh River Development, $550,000; Thunder Bay System including 2 new 12,500 hp. units at Cameron Falls, and transmission line to Port Arthur and Ft. William, $2,550,000; Central Ontario System, $1,400,000; Nipissing System, $180,000; Rideau System, $100,000; Ottawa System, $780,000. F. A. Gaby, ch. engr.

Ont., Galt—Factory—Galt Shoe Co., A. M. Stuart, mgr., plans to rebuild factory recently destroyed by fire. $125,000.

Ont., Peterboro—Factory—Canadian General Electric Co., 212 King St. W., Toronto, plans 3 story and basement, rein.-con.

Industrial Works (Continued)

brick and steel addition, plain foundation. $400,000. Private plans.

Ont., Sandwich—Substation—Ontario Hydro Electric Power Comn., 190 University Ave., Toronto, plans electric substation, here. $150,000. F. A. Gaby, ch. engr.

Ont., St. Thomas—Roundhouse and Machine Shop—Canadian Natl. Ry., New Union Sta., Toronto, having plans prepared and takes bids about Apr. 15, new roundhouse and machine shops, cement. $220,000. S. H. Stone, c/o owner, engr.

Ont., Toronto—Substation—Toronto Transportation Comn., Bd. Trade Bldg., plans 1 story, rein.-con., brick and steel addition, plain foundation, Yonge St. $200,000. Private plans.

BIDS DESIRED

Mass., Boston—Substation—J. R. Worcester Co., archts., 79 Milk St., taking bids substation 72, 5 story, 66 x 80 ft., brick and steel, for Edison Electric Illuminating Co., 70 State St.

Mass., Worcester — Factory — H. L. Meacham, archt., 571 Main St., taking bids 2 story, 60 x 120 ft., brick and steel, Derby St., for Star Auto Radiator Repair Wks., 33 Derby St.

N. Y., Brooklyn—Housing Station, etc.—Apr. 21, by Comrs. of Plant & Structures. Municipal Bldg., New York, housing station, incl. small repair shop, 2nd Ave. and 11th St., here.

N. Y., New York—Housing Station, etc.—Apr. 21, by Comrs. Plant & Structures, Municipal Bldg., housing station and destructor plant, rein.-con., brick and steel, plain foundation, 139th St. and Harlem River.

Pa., Altoona — Power House — Pennsylvania R.R. Broad St. Sta., Phila., taking bids 1 story, 40 ft. high, 52 x 52 ft. brick and steel power house here. W. H. Cookman, c/o owners, engr.

Pa., Bloomsburg — Plant — Apr. 25, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., 2 story and basement, 70 x 180 ft. rein.-con., brick and steel, plain foundation, for Magee Carpet Co., Bloomsburg. $200,000.

Pa., Pittsburgh—Laundry—Pearl Laundry Co., 2015 Wyandotte St., taking bids 3 story and basement, brick and steel, Wyandotte St. $150,000. Private plans.

O., Cleveland—Factory—Cleveland Heater Co., 1900 West 112th St., taking bids 1 story, 100 x 250 ft., brick and steel addition. $100,000. G. S. Rider & Co., Century Bldg., archts. Noted Jan. 31.

Mich., Detroit—Factory—A. R. Morison, archt., 2210 Park Ave., taking bids 3 story, rein.-con. and brick bakery factory, 4th Ave., for New England Pie Co., 2002 4th Ave. $50,000.

Mich., Detroit—Factory—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., taking bids and open same about Apr. 21, 1 story, 100 x 140 ft., rein.-con., brick and steel, plain foundation, West End Ave., for Kelsey Wheel Co., 3600 Military St. $50,000.

Ill., Chicago — Factory — Lockwood, Greene & Co., engrs., 38 South Dearborn St., will let separate contracts 2 story and half-basement, 126 x 414 ft. finishing building, 6 story, 48 x 128 ft. dope building and 48 x 53 ft. clay storage building, rein.-con., for Western Shade Cloth Co., 22nd and Jefferson Sts. Noted Mar. 6.

Ill., Rock Island—Plant—Cervin & Horn, archts., 310 Safety Bldg., taking bids and open same about Apr. 20, 2 story and basement, 68 x 150 ft., rein.-con., brick and stone, for John Potter Publishing Co., 1624 2nd Ave. $150,000.

Ia., Cedar Rapids—Plant—Apr. 21, by Gazette Co., 2 story and basement, 60 x 140 ft., rein.-con., brick, tile and stone, 3rd Ave. and 5th St. E. $90,000. B. Rugh, 1194 2nd Ave., archt. Noted Jan. 10.

Minn., Winona—Plant, etc.—Wisconsin Light & Power Co., R. M. Howard, mgr., taking bids addition to boiler plant, brick and steel, plain foundation. Mead & Seastone, Journal Bldg., Madison, Wis., engrs. Noted Mar. 13.

CONTRACTS AWARDED

Mass., Malden — Manufacturing — Potter Drug & Chemical Corp., 129 Medford St., 2 story and basement, 52 x 65 ft., brick, Medford St., to J. H. Whitcomb Constr. Co., 6 Beacon St., Boston, $54,000. Archts. est. $55,000.

Conn., Stamford—Plant—H. E. Verran Co., 19 Union Sq., New York City, plant for dyeing and finishing silks, etc., here, to J. W. Ferguson, 152 Market St., Paterson, N. J. Archts. est. $200,000.

R. I., North Smithfield (Woonsocket, P. O.)—Plant—Branch River Wool Combing Co., 1 story, 238 x 392 ft. wool plant, 3 story and basement, 95 x 170 ft. storage plant, pump houses, boiler house and garage, etc., Branch Village, to Turner Constr. Co., 242 Madison Ave., New York City, $600,000. Archts. est. $1,000,000. Noted Apr. 10.

R. I., Pawtucket—Factory—Collyer Insulated Wire Co., 249 North Main St., 1 story, 60 x 120 ft., to Rowley Constr. Co., 260 Central Ave., $45,000.

N. Y., New York—Plant—M. F. Westergreen, Inc., 213 East 144th St., masonry contract 2 story, 27 x 100 ft., East 144th St., to Hubener & Escher, 748 Melrose Ave., $30,000. All other work being done by owner by separate contracts. Total cost about $200,000.

Pa., Morrisville—Plant—C. Warner Co. I.O.O.F. Bldg., Wilmington, Del., 3 story, 40 x 40 x 40 x 160 ft. sand and gravel plant, brick and steel, plain foundation, to W. Steele & Sons Co., 219 North Broad St., Phila. $500,000.

Pa., Phila.—Garage—J. W. Vandergrift, 1017 Cambria St., 1 story, 63 x 255 ft., brick and steel, plain foundation, Cambria and 12th Sts., to Robbins Contg. Co., 808 North 7th St.

Pa., Phila. — Plant — Pittsburgh Plate Glass Co., 11th and Arch Sts., plant, Indiana St., to W. Steele & Sons Co., 219 North Broad St., $50,000.

Pa., Pittsburgh—Factory—Wolverine Mfg. Co., Page and Fontilla Sts., 3 story and basement, 80 x 160 ft., rein.-con., Western Ave., to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. $100,000.

W. Va., Parkersburg — Plant — Seward Wire Co., 1 story addition, to Plate & Vogel, Parkersburg. Archts. est. $40,000.

Ala., Tallassee — Mill — Mount Vernon Woodberry Mills, 4 story, 144 x 367 ft. rein.-con. mill, 1 story, 80 x 100 ft. opener room and 1 story warehouse, to Potter & Shackelford, Gallivan Bldg., Greenville, S. C.; 150 tenement houses, to Daniel Lumber Co., LaGrange, Ga. Noted Feb. 28.

Ky., Louisville—Assembly Plant—Ford Motor Co., Detroit, Mich., assembly plant, to C. A. Koerner Co., 3183 East Burnett St., Louisville, about $700,000; 1,000 tons structural steel, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa. Total est. $1,500,000. Incorrectly noted in Mar. 20 issue.

Ind., Macksville—Power Plant—Indiana Electric Corp., Guarantee Bldg., Indianapolis, power plant, here, to Stone & Webster, 147 Milk St., Boston. Archts. est. $200,000.

Ill., Plymouth — Plant — Local Syndicate c/o F. M. Connolly, archt., 432 Peoples Bank Bldg., Galesburg, will build rock crushing plant, incl. power plant, here, by day labor. $150,000. Noted Jan. 31.

Wisconsin — Substation — See "Unclassified."

Wis., Chippewa Falls — Laundry — St. Josephs Hospital, 2 story, 50 x 52 ft., brick and rein.-con., plain foundation, to Ischoff-Durck Camastral Co., Chippewa Falls. Archts. est. $50,000. Noted Mar. 20.

Wis., Milwaukee—Plant—Pittsburg Plate Glass Co., 205 Lake St., 5 story and basement, 90 x 140 ft., brick and concrete, plain foundation, to Dahlman Constr. Co., 456 Bway. Noted Mar. 13.

Wis., Milwaukee—Foundry—Prime Mfg. Co., 653 Clinton St., 1 and 2 story, 82 x 160 ft., brick and steel, plain foundation, Clinton St., to P. Riesens Sons, 1018 Humboldt Ave. Steel previously let. Noted Mar. 6.

Wis., Sheboygan — Factory — D. & D. Hanger & Panel Co., 722 Jefferson Ave., 1 story, 70 x 100 ft., rein.-con., plain foundation, to W. Guenther Sons Co., Sheboygan. $50,000. Noted Mar. 13.

Wis., South Milwaukee—Factory—Line Material Co., 2 story, 60 x 185 ft., brick and timber addition, plain foundation, to Bentley Bros., 808 South Pierce St., Milwaukee. $55,000.

Minn., Duluth—Plant—Dominion Tar and Chemical Co., 59th Ave. W., 40 x 50 ft. still house, 2 story, 45 x 60 ft. tar products plant, 1 story, 25 x 40 ft. office, and 16 pitch containers from 16 to 40 ft. circumference, brick and steel, to E. J. Zaufft, 5613 Grand Ave., $50,000.

Mont., Livingston—Boiler Shops—Northern Pacific Ry. Co., 5th and Jackson Sts., St. Paul, Minn., 1 story, 144 x 186 ft., brick, concrete, etc., here, to C. Skooglun, 502 Ryan Bldg., St. Paul, Minn., $100,000.

Mo., St. Louis — Factory — Hellmuth & Hellmuth, archts., DeMenil Bldg., general contract 3 story and basement, 60 x 100 ft., rein.-con. and brick, Theresa and Gratiot Sts., to J. H. Bright Contg. Co., Arcade Bldg., for Steelcote Mfg. Co., 700 North Main St. Archts. est. $50,000. Noted Jan. 31.

Calif., Fresno—Rock Crushing Plant—Service Rock Co., Patterson Bldg., rock crushing plant, (railroad $40,000), bunkers, etc., to R. F. Felchlin Co., Patterson Bldg., total cost $200,000. Noted Dec. 6.

Tex., Taylor—Creamery—R. Thompson will build 1 story brick and concrete creamery, by day labor. $45,000. H. F. Kuehone, Littlefield Bldg., Austin, archt.

Calif., Los Angeles — Factory — Weber Show Case & Fixture Co., 316 South Los Angeles St., will build brick and timber, South Park Ave., by day labor under supervision of Hamm & Grant, Inc., engrs., Ferguson Bldg. $250,000. Noted Dec. 13.

Calif., Oakland—Factory—Magnavox Co., 2725 East 14th St., 1 and 2 story, rein.-con. and brick, to F. E. Nelson, 3090 King St., Berkeley, $50,000.

Calif., Pasadena—Factory—Wickercraft Furniture Co., c/o Hamm & Grant, Inc., engrs., Ferguson Bldg., Los Angeles, will build 4 story, rein.-con. and heavy mill construction, South Raymond Ave., here, by day labor, under supervision of engineers. $50,000. Noted Mar. 27.

N. S., Sheet Harbor—Mill—Albany Perforated Wrapping Paper Co., 1273 Bway., Albany, N. Y., 72 x 185 ft. rein.-con. and brick, here, to Parsons Co. Ltd., Moncton, N. B.

Buildings

PROPOSED WORK

N. Y., New York — Apartment — L. H. Murray, c/o J. E. R. Carpenter, archt. and engr., 598 Madison Ave., soon takes bids 14 story, brick, steel and stone plain foundation, 1170 5th Ave. $750,000.

O., East Liverpool—Memorial Home—M. Patterson soon takes bids 3 story and basement, brick, concrete and steel, East 4th St. $160,000.

O., Zanesville—Hotel—P. J. Flood soon takes bids 5 story, 27 x 67 ft., brick and steel, 430 Market St. $150,000 or more. W. S. Jameson, Zanesville, archt.

Ill., Clinton—School—School Dist. 60, c/o W. F. Gray, soon takes bids 2 story and basement, brick and stone. $150,000. Lewis & Dougherty, 35 North Dearborn St., Chicago, archts.

Ill., Rockford—Bank and Office—Security Natl. Bank soon takes bids 5 story and basement, 42 x 78 ft., rein.-con., brick, stone and steel, 14th St. Peterson & Johnson, Swedish-American Bldg., archts.

Kan., Kansas City—Court House—Wyandotte Co. soon takes bids for competative plans court house. $1,000,000. W. L. Steel, 502 Union Bank Bldg., Sioux City, Ia., consult. engr. Noted Mar. 31.

Kan., Lawrence—Hotel—W. C. Houston takes bids Apr. 25, 5 story and basement, 110 x 117 ft., rein.-con., brick and stone. $180,000. W. E. Hulse Co., Stamey Bldg., Hutchinson, archt. Noted Mar. 13.

BIDS DESIRED

N. Y., Astoria (Long Island City, P. O.)—Theatre and Office—S. Ageloff, 26 Court St., Brooklyn, will build brick, steel and stone, plain foundation, 2nd Ave. near Ditmars Ave., here. Owner will do general work and award sub-contracts. $750,000. M. Klein, 39 Graham Ave., Brooklyn, archt. and engr.

N. Y., Jamaica—Office—H. O. Falk, c/o Shampan & Shampan, archts. and engrs., 189 Montague St., Brooklyn, will build 6 story, 61 x 110 ft., brick, steel and stone, plain foundation, Fulton St. $250,000. Work will be done by separate contracts under supervision of architects.

N. Y., Mt. Pleasant—Hospital—May 5, at office of F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, White Plains, Grasslands Hospital, here. Walker & Gillette, 128 East 37th St., New York City, archts.; adv. E. N.-R. Apr. 17. Noted Mar. 6.

N. Y., New York—Market, etc.—May 14, by E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., wholesale market and storage building, Exterior and East 151st Sts., for Bronx Terminal Market.

N. Y., New York—School—May 13, by Bd. Educ., 500 Park Ave., brick, stone and steel addition to High School of Commerce, plain foundation, West 65th St. and Amsterdam Ave. $1,000,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, engr. and archt.

N. Y., Ripley—High School—Apr. 25, by Bd. Educ., new high school. To exceed $150,000. O. R. Johnson, 610 Fenton Bldg., archt.

Buildings (Continued)

N. J., Asyla (Grenloch, P. O.)—Hospital—May 6, by city of Camden, c/o A. Moses, archt., Temple Bldg., Camden, group of buildings for tuberculosis hospital, here.

Pa., Homestead—Theatre—J. E. Stahl, 207 8th Ave., taking bids 3 story and basement, 75 x 110 ft., brick, steel and tile, 8th Ave., $150,000. V. A. Rigamount, State Theatre Bldg., Pittsburgh, archt.

Pa., Woodland—School—Apr. 24, by V. G. Henderson, pres. Bradford Twp. School Dist., 3 story and basement, 100 x 110 ft., brick and steel. $150,000. Howard & Hatcher, Du Bois, archts.

Md., Baltimore—Apartment—Apr. 19, by Parker, Thomas & Rice, archts., Union Trust Bldg., 4 story, 69 x 112 ft., brick, plain foundation, Charles St. and Wyndhurst Rd., for S. Olivier, Standard Oil Bldg. $150,000. Noted Mar. 6.

W. Va., Clarksburg—Church—Church of Immaculate Conception taking bids and opens same about Apr. 21, new church. $250,000. E. J. Weber, Knights of Columbus Bldg., Pittsburgh, Pa., engr. Noted Apr. 10.

Fla., Tampa — Office — V. M. Antuono, 1316 Spring St., and F. O. Adams, Jr., resident archt., Grand Theatre, taking bids 16 story, brick and steel, Lafayette St. Hentz, Reid & Adler, 92½ North Forsyth St., Atlanta, Ga., archts.

Tenn., Memphis—High School—Apr. 28, by Bd. Educ., Lyceum Theater Bldg., North Side High School, 3 story, 1,000 seating capacity, Manassas St. and Saffarans Ave. $250,000. C. P. Pfeil, and G. Awsumb, 1403 Union & Planters Bank Bldg., Memphis, archts. Noted Jan. 10.

O., Akron—City Hall—Apr. 21 by Bd. Control, 8 story, brick and steel, South High St. $900,000.

O., Cleveland—Apartment Hotel—Braverman & Havermaet, archts., taking bids 6 story and basement, brick and rein.-con., East 102nd St. near Euclid Ave., for Shelton Apartment Co., c/o J. J. Klein, Engineers Bldg. $350,000.

O., Cleveland Heights (Warrensville P. O.)—School—St. Anns Roman Catholic Church, 2115 Coventry Rd., taking bids 3 story and basement, 65 x 192 ft., brick, steel and concrete, Coventry Rd. $250,000. George Hunt Ingraham, 2138 B. F. Keith Bldg., Cleveland, archt.

Ind., Indianapolis — Memorial — May 15, by Walker & Weeks, archts., 1900 Euclid Ave., Cleveland, O., Building B of first unit, 4 story, 60 x 150 ft., stone and steel, for Indiana World War Memorial, M. S. Sonntag, pres. Noted May 10.

Mich., Ecorse—School—A. Des Rosiers, engr. and archt., 620 McKerchey Bldg., Detroit, taking bids and opens same about Apr. 21, 2 story and basement, 110 x 115 ft., rein.-con., brick and stone, plain foundation, Bonzane St., here, for St. Francis Xavier Church, Ecorse. $150,000.

Mich., Grand Rapids — Office — Smith, Hinchman & Grylls, archts., 800 Marquette Bdg., Detroit, taking bids and opens same about Apr. 21, 4 story and basement, rein.-con., brick, stone and steel, plain foundation, Division and Fountain Sts., for Michigan State Telephone Co., Grand Rapids. $200,000.

Mich., Highland Park (Detroit, P. O.)—Office—Bonnah & Chaffee, archts., 528 Farwell Bldg., Detroit, taking bids and opens same about Apr. 25, 10 story and basement, 60 x 75 ft. rein.-con. and brick, plain foundation, Woodward Ave., for C. R. Murphy, 812 Free Press Bldg., Detroit.

Ill., Chicago—Apartment—R. F. France, owner and archt., 155 North Clark St., taking bids 3 story and basement, 100 x 110 ft., fireproof. Winchester and Cullom Sts. $150,000.

Ill., Chicago—Apartment—J. H. Klafter, archt., 127 North Dearborn St., taking bids 3 story, 100 x 125 ft., fireproof, 3115-21 Warren St., for Brown & Levin, c/o archt. $200,000.

Ill., Chicago—Apartment—Owner c/o M. Golstein, 801 West Madison St., taking bids 3 story, 100 x 125 ft., fireproof, Gladys and Kilburn Sts. $175,000. E. Steinborn, 111 North Dearborn St., archt.

Wis., Green Bay—Community—Apr. 28, by H. A. Foeller and H. W. Carr, archts., Nicollet Bldg., 3 story and basement, 117 x 180 ft., concrete, brick and stone, plain foundation, for Green Bay Columbus Club, c/o C. K. Bong, 114 South Jefferson St. Noted Feb. 8.

Wis., Lancaster—High School—May 1, by School Bd., 2 story and basement, 90 x 130 ft., brick, tile and concrete, plain foundation. $175,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts. Noted Mar. 27.

Wis., Milwaukee — Apartment — E. G. Schroeder Co., archts., 405 Bway., taking bids 3 story, brick, semi-fireproof, plain foundation, Cramer St., for Oakridge Realty Co., c/o A. Straus, 97 Wisconsin St. $150,000.

Wis., Milwaukee—Garage—Tharinger & Bruecker, archts., 496 Cramer St., taking bids 2 story, 60 x 198 ft., brick and concrete, plain foundation, Windlake Ave., for Tobin-Sutton Co., 636 Lincoln Ave. $150,000.

Wis., Racine—Church—St. Patricks Congregation, W. F. McCarth, pastor, 1109 Douglas Ave., and Barry, Byrne & Ryan, archts., 104 South Michigan Ave., Chicago, taking bids 2 story, 98 x 100 ft., brick, tile and terra cotta, plain foundation. $150,000. Noted Feb. 21.

Wis., Sheboygan—Store and Office—W. C. Weeks, archt., 720 Ontario Ave., taking bids 2 story, 85 x 100 ft., brick, rein.-con. and steel, for H. C. Prange, 731 North 8th St. Noted Mar. 20.

Wis., Wauwatosa—Convent—Backes & Pfaller, archts., 216 West Water St., Milwaukee, taking bids 2 story and basement, 102 x 130 ft., brick and tile, plain foundation, 59th St., for Dominican Sisters, R. D. Hales Corners. $150,000.

Minn., Northfield—Science Hall—May 1, by St. Olafs College, P. O. Holland, bus. mgr., 3 story and basement, 84 x 164 ft., rein.-con., brick and tile, $250,000. Coolidge & Hodgdon, 134 South LaSalle St., Chicago, archts. Noted Nov. 9, 1922.

Minn., St. Paul—Hospital—Apr. 25, by State Bd. Control, Capitol, 3 story and basement, rein.-con., brick and tile addition, to State Hospital for Crippled Children, 1003 Ivy St. $150,000. D. F. Mullen, secy. C. H. Johnston, 715 Capital Bank Bldg., archt. Noted Feb. 22, 1923.

Neb., Beaver City—High School—Apr. 28, by Bd. Educ., 2 story and basement, 67 x 100 ft., brick and stone. $150,000. Fiske & Meginnis, 533 Bankers Life Bldg., Lincoln, archts.

Colo., Denver—Grade School—Apr. 23, by Bd. Educ., School Administration Bldg., 2 story, 80 x 254 ft., rein.-con. and brick, plain foundation. $275,000. R. K. Fuller, Foster Bldg., archt.

BIDS RECEIVED

N. Y., New York—Schools—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 126, Van Alst Ave., in Astoria, from O'Day Constr. Co., 1639 Bway., New York City, $1,001,464; P. S. 82, West 176th St., in New York, from M. F. Kelly Co., Inc., $777,000; P. S. 83, Rhinelander Ave., in New York, from Watt & Sinclair, Inc., 348 West 27th St., New York, $745,494; P. S. 217, Newkirk Ave., in Brooklyn, from G. F. Driscoll Co., 115 Schermerhorn St., Brooklyn, $743,900; P. S. 220, 9th Ave., in Brooklyn, from Waters & Coxwell, $973,000; P. S. 216, Ave. X, in Brooklyn, from Dooley Stapleton Corp., $772,700; bids for above 6 buildings awarded as 1 contract, from T. A. Clarke Co., 122 Livingston St., Brooklyn, $5,187,000. Noted Mar. 13 and 20.

Ky., Louisville — Theatre, Office and Apartment—Mammouth Realty Co., 6 story and basement, 70 x 150 ft., from Platoff & Bush, 122 West Liberty St., about $225,000. Noted Feb. 28.

O., Parma (Berea, P. O.)—Schools—Bd. Educ. 2 grade schools and 1 high school, 1 story each, brick, steel and concrete, from W. A. Franklin Sons Co., 375 Cuyahoga St., Akron, $145,000. Noted Mar. 27.

Minn., Minneapolis — Administration — State Bd. Control, St. Paul, Apr. 8, 4 story and basement, rein.-con., brick and tile, at State University, here, from J. and W. A. Elliott Co., 906 Lumber Exch., $419,949. Noted Mar. 27.

Minn., St. Paul — School — Dept. Educ., Apr. 8, 3 story and basement, rein.-con., brick and tile addition to school, York St. and Walsh Ave., general contract from Federal Constr. Co., 38 East 4th St., $151,000.

Tex., Houston — Library — General contract 3 story and basement, 65 x 200 ft., brick, stone and concrete, Smith and McKinney Sts., from Southwestern Constr. Co., West Bldg., $243,000.

Calif., Los Angeles—Hall—Los Angeles Co., fireproof, concrete and brick, general contract, Hall of Justice, from Clinton Constr. Co., Stock Exch. Bldg., $856,000. Noted Mar. 20.

CONTRACTS AWARDED

Mass., Springfield—Business—A. Joseph & Bro., 115 Lyman St., 4 story and basement, 65 x 93 ft., brick, concrete and steel, Taylor and Chestnut Sts., to E. F. Carlson, 244 Main St., Springfield, $150,000.

Mass., Springfield—Office—H. J. Perkins, Dwight St., will convert 4 story warehouse into office, Lyman and Chestnut Sts., by day labor under supervision of Smith & Annable, archts., 145 State St. $155,000.

Conn., Hartford — Office — D'Esopo Real Estate Corp., 647 Main St., alterations to office, Sheldon and Main Sts., to J. D'Esopo, 132 Temple St., $230,000. Noted Sept. 20.

N. Y., Brooklyn—Apartment—J. Klein, c/o E. M. Adelsohn, archt. and engr., 1778 Pitkin Ave., will build brick, steel and stone, plain foundation, Montgomery St., by day labor. $250,000.

N. Y., Brooklyn—Apartments—B. Levy Corp., c/o Reilly & Hall, archts. and engrs., 405 Lexington Ave., two 5 story, brick, steel and stone, plain foundations, Ridge Blvd., by day labor. $250,000 each.

N. Y., Dolgeville — School — Bd. Educ., general contract grade and high school, South Main St., to O. L. Weidman, Dolgeville, $112,880; heating, to Mohawk Valley Heating Co., 35 Genesee St., Utica, $26,967. Noted Mar. 27.

N. Y., Hamburg—High School—Bd. Educ., 2 story and basement, 150 x 250 ft., rein.-con. and brick, Pleasant Ave., to Felton Constr. Corp., 1450 Michigan Ave., Buffalo, to exceed $400,000. Noted Jan. 31.

N. Y., New York—High School—Roman Catholic Archdiocese of New York, 452 Madison Ave., brick, steel and stone, plain foundation Lexington Ave., to Niewenhouse & Co., Inc., 316 East 161st St. Archts. est. $500,000.

N. Y., New York — Office and Bank — Seven Hundred Five 5th Ave. Corp., c/o W. Cruikshank Sons, 85 Liberty St., brick, steel and stone, plain foundatio, 705 5th Ave., to W. Crawford Co., 7 East 42nd St. Archts. est. $1,250,000.

N. Y., Oriskany—Infirmary—Order of Eastern Star, structure for infirmary to Waldo Griffiths, Mayro Bldg., Utica. Archts. est. $975,000.

N. Y., Rome—Lodge—Bd. Trustees Order of Eastern Star, general contract for lodge, to W. Griffiths. 261 Genesee St., Utica, plumbing, to C. H. Jackson Co., Inc., 118 North Washington St., $140,000.

N. Y., Rome — Nurses and Employees Home—Bd. Mgrs. Rome State School, general contract 3 story and basement, 60 x 160 ft. with 80 ft. wing, concrete, brick and steel, to Dean, Duffy & Liechti, Olean. $181,918; plumbing, to C. H. Jackson, Inc., 118 North Washington St., $25,126. Noted Jan. 31.

N. Y., Solvay (Syracuse P. O.)—High School—Bd. Educ. Junior High School, Gertrude and Hazard Sts., to Shane Constr. Co., Herald Bldg., Syracuse, $500,000. Noted Mar. 20.

N. Y., Utica—Church—Building Com. Westminster Presbyterian Church concrete, brick, steel and stone, to E. Bedford, 48 John St., Ilion. $250,000.

N. J., Newark—School—Bd. Educ., City Hall, Broad St., school for crippled children, brick, steel and stone, plain foundation, Bloomfield Ave. and Ridge St., to Essex Constr. Co., Hackett St., $158,975. Noted Mar. 13.

N. J., Paulsboro — Office, Research Laboratory and Annex—Vacuum Oil Co., Brown Bros. Bldg., Phila., 3 story, 70 x 140 ft., 3 story, 50 x 70 ft., and 1 story, 80 x 155 ft., here, to White Constr. Co., 95 Madison Ave., New York City.

Pa., Chester—Business—McCrory Stores Corp., 1107 Bway., New York City, 2 story and basement, 60 x 100 ft., 611 Edgemont Ave., to W. R. Provost, Crozier Bldg. Archts. est. $150,000.

Pa., Easton—High School—School Bd., 30 North 2nd St., brick, steel and stone, Northampton, 21st and Spring Garden Sts., general contract to T. M. Gibbs Constr. Co., 215 South Broad St., Phila., $587,850; heating and ventilating also plumbing to E. P. Saeger, 1401 Turner St., Allentown, $73,888 and $36,888 respectively. Noted Apr. 3.

Pa., Jenkintown—Bank—H. Trumbauer, archt., Land Title Bldg., Phila., 2 story and basement, 57 x 151 ft. brick and steel, plain foundation, to F. L. Hoover & Sons, 1023 Cherry St., Phila., for Jenkintown Bank & Trust Co. Noted Mar. 20.

Pa., Phila.—Hospital—Samaritan Hospital, Broad and Ontario Sts., 3 and 4 story and basement, 44 x 225 ft. and 3 story, 35 x 50 ft., brick and steel, plain foundation, Broad and Ontario Sts., to Wark Co., 16th and Walnut Sts.

Pa., Pittsburgh—Clubhouse—Y. M. C. A., Pittsburgh, 2 and 3 story and basement,

Buildings (Continued)

Dithridge St., to W. T. Grange Constr. Co., Keenan Bldg. Archts. est. $150,000.

Pa., Pittsburgh — Exchange — Bell Telephone Co., 17th St. and Parkway, Phila., 3 story and basement, Schenley Pk., to W. F. Trimble & Sons, 1719 Penna. Ave. Archts. est. $150,000.

D. C., Wash.—Library—Natl. Episcopal St. Albans, library to G. Fuller Co., Munsey Bldg., $350,000.

D. C., Wash.—Store—Lansburgh & Bros. Dept. Store, 420 7th St. N. W., addition to store to Parsons & Hyman, Inc., Equitable Bldg. $1,000,000.

W. Va., Huntington—Lodge—Huntington Lodge 64, I. O. O. F., 4 story and basement, 52 x 150 ft., 3rd Ave. and 10th St., to C. W. McNulty, 208 4th St., Huntington. Archts. est. $150,000. Noted Apr. 24.

O., Cincinnati — Store and Loft — L. Baker, 1605 Union Trust Bldg., 12 story, 90 x 168 ft., rein.-con., 9th and Sycamore Sts., to Ohio Constr. & Building Co., Burnet Ave. Archts. est. $800,000.

O., Cleveland — Commercial, Apartment and Garage—F. W. Staatny, 12704 Woodland Ave., 1 and 2 story and basement, 100 x 120 ft., 12631 Woodland Ave., to O'Connell & Baurle, 2041 East 115th St. Archts. est. $150,000.

O., Cleveland—Garage—Eagle Improvement Co., c/o H. D. Hughes, archt., Citizens Bldg., 2 story and basement, 100 x 115 ft., rein.-con., brick and steel, Eagle Ave., to S. W. Emerson Co., Union Bldg. Archts. est. $150,000.

O., Cleveland — Hotel — W. J. Cutler, Turkish Baths, 41 Public Sq., 6 story, 47 x 176 ft., rein.-con., brick and steel, 1112 Prospect Ave., to Crowell & Little Constr. Co., 3751 Prospect Ave., $400,000.

Mich., Detroit—Hotel—A. B. Hartz, 17 Brady St., 9 story and basement, 75 x 100 ft. rein.-con., brick and steel, plain foundation, John R St., to A. W. Kutsche & Co., 333 State St. Archt.'s est. $800,000.

Mich., Detroit—Morgue—W. H. Green, secy. Wayne Co., County Bldg., 2 story and basement, 85 x 136 ft. rein.-con., brick and steel, plain foundation, Lafayette Ave., to Culbertson & Kelly, 827 West Milwaukee Ave., $332,607. Noted Mar. 20.

Mich., Detroit—Temple—Amaranth Lodge, 3106 Gratiot Ave., 4 story and basement, 70 x 112 ft. rein.-con., brick and steel, plain foundation, Gratiot Ave., to Corrick Bros., 507 Owen Bldg. Archts. est. $150,000. Noted Mar. 6.

Mich., Flint — School — A. J. Wildanger, secy. Bd. Educ., 2 story and basement, 67 x 210 ft. and 92 x 114 ft. rein.-con., brick and steel, plain foundation, Corunna Rd., to Burke & Smith, Flint, $236,800. Noted Feb. 21.

Mich., Highland Park (Detroit, P. O.)—School—Bd. Educ., 2 story and basement, 64 x 200 ft. addition to Ferris School, rein.-con., brick and steel, plain foundation, to Martin & Krausman, 606 Woodward Ave., Detroit, $160,000. Noted Dec. 27.

Mich., Port Huron—School—Bd. Educ., 2 story ad basement, rein.-con., brick and steel, plain foundation, Garfield and 10th Sts., to O. F. Miller Co., Kalamazoo, $169,675.

Ill., Chicago—Apartment—O. T. Nelson, 7014 Crandon St., 3 story, 108 x 125 ft., fireproof, 6700-12 Chappel Ave., to Turnquist Bros. Constr. Co., 217 East 69th Pl. Archts. est. $150,000.

Ill., Chicago — Apartment — V. Nelson, 7345 Phillips Ave., 3 story, 100 x 118 ft., fireproof, 7114-20 Ridgeland Ave., to Turnquist Bros. Constr. Co., 217 East 69th Pl. Archts. est. $150,000.

Ill., Chicago — Apartment — Plothe & Grosby, 2532 North Clark St., 3 story, 110 x 170 ft., fireproof, 4639-49 Lake Park Ave., to Thogerson & Erickson, 4804 North Kedgie St. Archts. est. $350,000.

Ill., Chicago—Apartment—W. L. Wallen, Jr., 6712 North Clark St., 3 story, 116 x 163 ft., fireproof, 660-10 North Ashland St., to E. Edlund, 1749 Highland Ave. Archts. est. $150,000.

Ill., Chicago—Warehouse—Great Atlantic & Pacific Tea Co., 445 West Pershing Rd., 4 story, 105 x 515 ft., fireproof, 2622-26 North Crawford St., to Turner Constr. Co., 315 Loomis St. Archt.'s est. $600,000.

Ill., Kankakee—Office, etc.—Knights of Columbus Lodge, 3 story and basement, 80 x 124 ft., rein.-con., brick and stone, Indiana and Merchant Sts., to Houde Constr. Co., LeGris Pl. Archts. est. $150,000.

Wis., Madison—Club—University Club, W. J. Mead, pres., 5 story, 50 x 99 ft., rein.-con., brick and steel, plain foundation, State St., to C. B. Fritz Co., 138 North Frances St. Archts. est. $150,000. Noted Dec. 20.

Wis., Milwaukee—Apartment—Allied Investment Co., 97 Wisconsin St., 3 story, 52 x 118 ft., brick and tile, plain foundation, Cass St., to W. W. Oeflein, 86 Michigan St. $150,000. Noted Feb. 28.

Ia., Des Moines — Warehouse — Brown-Camp Hardware Co., 330 Southwest 5th St., general contract 5 story and basement, 102 x 282 ft., rein.-con., brick and tile, to J. and W. A. Elliott Co., 906 Lumber Exch. Bldg., Minneapolis, Minn., $277,000. Noted Mar. 27.

Ia., Hopkins—School—Bd. Educ., general contract 2 story and basement, rein.-con., brick, tile and stone, to Lundberg & Peterson Constr. Co., 831 2nd Ave., S., Minneapolis, Minn., $143,486.

Minn., Minneapolis — Church — Simpson Methodist Episcopal Church, c/o R. L. Smith, 215 Rustic Lodge Ave. W., general contract 42 x 124 ft., rein.-con. and brick, 2740 1st Ave. S., to Splady & Haagenson, 1022 Plymouth Bldg., $150,000.

Minn., Minneapolis—Sanatorium—Loring Holding Co., c/o Bertrand & Chamberlin, archts., 616 Northwestern Bank Bldg., general contract, 4 story, 99 x 128 ft., rein.-con., brick and tile addition, 15th St. and Yale Pl., to O. P. Bailey Co., 610 Builders Exchange Bldg., $200,000.

Kan., Emporia—High School—Bd. Educ., 3 story, rein.-con., brick and stone, junior high school, general contract to Peterson Constr. Co., Salina, $265,095. Noted Mar. 20.

Neb., Scottsbluff—Hospital—Northwestern Nebraska Methodist Hospital Bd., c/o F. S. McCaffree, pres., will build 6 story and basement, 18th and Bway., by day labor. $200,000. E. L. Goldsmith, 1623 6th Ave., archt.

Mo., Joplin—Office—I. T. Cook & Co., Inc., Arcade Bldg., St. Louis, 8 story and basement, 75 x 110 ft., hollow tile, brick and stone, 4th and Main Sts., here, to C. A. Dieter Constr. Co., Independent Bldg. Archts. est. $500,000.

Mo., St. Louis—Garage and Auto Show—Lambert Graves Motor Co., 4576 Manchester Ave., 2 story and basement, 75 x 125 ft., rein.-con., brick, stone and terra cotta, Lindell Blvd., to B. J. Charleville, 114 North 7th Sts. Archts. est. $160,000.

Mo., St. Louis—Hospital—Jewish Hospital, 5414 Delmar Blvd., 6 story and basement, rein.-con., brick, stone and steel, Kingshighway and Forest Park Blvd., to Murch Bros. Constr. Co., Ry. Exch. Bldg. Archts. est. $800,000. Noted May 24.

Mo., St. Louis—Seminary—T. Graebner, secy. building com. Concordia Seminary, 3618 Texas Ave., general contract dormitories, academic, dining hall, library, assembly hall, lecture hall, infirmary, professor's house and power plant, etc., rein.-con., limestone and local stone, plain foundations, to Kellerman Constr. Co., 421-22 Victoria Bldg., $1,306,860. Noted Mar. 6.

Ark., Little Rock—Apartment—Rackensack Apartment Co., c/o Wittemborg, Deloney & Watts, archts., Southern Trust Bldg., will build 7 story and basement, 140 x 150 ft., rein.-con., brick, stone and terra cotta, by day labor. $400,000.

Tex., Dallas—Bank—Republic Natl. Bank, Main St. and Exch. Pl., 2,000 tons structural steel for bank, to Mosher Steel & Machine Co., 900 South Austin St., $250,000. Noted Mar. 27.

Tex., Marshall—High Schools—Bd. Educ. general contract 3 story and basement, 94 x 190 ft., brick, steel and concrete, to Quisle & Andrews, Cotton Exch., Ft. Worth, $147,978; negro school, to Joplin Marshall Constr. Co., Slaughter Bldg., Dallas, $49,734. Noted Mar. 20.

Wash., Seattle — School — St. Benedicts Order, 2 story, 126 x 140 ft., 48th and Wallingford Sts., to M. Hoard & Co., Pantages Bldg. Archts. est. $155,000.

Ore., Salem—High School—Bd. Educ., general contract 2 story, 100 x 100 ft., rein.-con. and brick, plain foundation, to Hansen, Hammond & Clist, Pittock Blk., Portland, $125,623. Noted Dec. 27.

Calif., Huntington Park (Branch of Los Angeles)—High School—Huntington Park Union High School Dist., general contract high school, to Edwards, Wildey & Dixon, Black Bldg., Los Angeles, $168,500. Noted Apr. 10.

Calif., Long Beach—Club—Long Beach Ebell Club, 140 x 150 ft., brick, 3rd St., to C. T. McGrew & Sons, 1345 West Ocean Ave., $155,000.

Calif., Long Beach—Store—Boys Shop, Inc., 128 West Bway., 6 story and basement, rein.-con., brick and steel, Locust St. and Bway., to C. T. McGrew & Sons, 1345 West Ocean Ave., $200,000.

Calif., Pasadena — Church — Second Church of Christ Scientist, North Lake Ave. and Washington St., hollow tile, Claremont St. and Hudson Ave., to Johnson & Christensen, 360 West 43rd St., Los Angeles, $152,000. Noted Mar. 20.

Calif., Paso Robles—High School—Paso Robles Union High School Dist., 2 story, rein.-con. and brick, general contract to A. Johnson, 1007 South Grand Ave., Los Angeles, $137,490. Noted Mar. 20.

Calif., San Diego — Art Gallery — A. Bridges, Loma Portal, 2 story and basement, 115 x 200 ft., Class A, rein.-con., in Balboa Park, to Lange & Bergstrom, 6376 Yucca St., Los Angeles, $300,000.

Que., Beauharnois — College — Catholic School Comrs. of St. Clement de Beauharnois, 4 story, rein.-con., brick and stone, to J. A. A. Leclaire, 454 Lasalle Rd., Verdun. $150,000.

Ont., Kingston—Hospital—Kingston General Hospital, clinic building at hospital, to P. H. Secord & Sons Constr. Co., Ltd., Brantford. Archts. est. $360,000. Noted Feb. 8.

Federal Government Work

PROPOSED WORK

N. Y., Brooklyn — Roads and Walks — Spec. 4953—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids concrete roads at Naval Hospital here. Noted Mar. 6.

Ala., Florence—Bridge—U. S. Engineer Office, Florence, plans bascule bridge across lock at Wilson Dam.

Ky., Uniontown—Ties and Piles—U. S. Engineer, P. O. Box 72, Louisville, takes bids about Apr. 25, 5,280 oak ties, 6 x 8 in. x 8 ft. and 600 round hardwood piles, for Dam 49, Ohio River.

BIDS DESIRED

Mass., Thatcher Island—Radio Compass Station—Apr. 30, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radio compass station, tramway and repairs to building, here.

N. Y., Governors Island (branch New York) — Roof Repairs — May 2, at Constructing Quartermaster's Office, Room 510, 39 Whitehall St., New York, roofing repairs to warehouse 138; adv. E. N.-R. Apr. 17.

N. C., Wilmington—Dredging Pump—May 15, by U. S. Engineer, Wilmington, furnishing one 20 in. dredging pump, etc. for dredge Henry Bacon; adv. E. N.-R. Apr. 17.

Ga., Savannah — Hospital — May 5, by Treas. Dept., office of Superv. Archt., Wash., D. C., remodeling at U. S. Marine Hospital here; adv. E. N.-R. Apr. 17.

Fla., Key West—Pumphouse—Apr. 21, by Treas. Dept., at office Supervising Architect, Office, Wash., D. C., complete new pumphouse, well, pumps, etc.

Ky., Louisville—Steel Gates—Apr. 22, by U. S. Engineer, P. O. Box 72, two steel gates for Lock 5, Green River, delivered f.o.b. Addison.

O., Chilo—Dwellings—Apr. 28, by U. S. Engineer Office, 405 Customhouse, Cincinnati, two 1½ story, 5 room, brick lock-tenders' dwellings, at Dam 34, Ohio River, near here, at Dam 36 near Coney, Ky., and Dam 38 near Mcs'Ville, Ky.; adv. E. N.-R. Apr. 17.

Mich., Detroit—Steel Derrick Boat—Apr. 30, by U. S. Engineer, Detroit, constructing steel derrick boat; adv. E. N.-R. Apr. 17. Noted Feb. 28.

Nevada—Road—May 14, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, Calif., grading 11.32 mi. Meadow Creek Sect. Gold Creek-Jarbridge Natl. Forest Highway, 62,503 cu.yd. excav.

Ariz., Tucson — Hospital — May 15, by U. S. Veterans Bureau, Wash., D. C., 1 therapy building and 2 bath houses, also altering and building addition to mess hall at Veterans Hospital 51, here.

Wash., New Dungeness—Radio Compass Station—May 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radio compass station, power house and fuel oil storage building, here.

Calif., San Francisco—Barracks—May 1, by Treas. Dept., at office Supervising Architect Office, Wash., D. C., 1 story, 42 x 66 ft. barracks building, at U. S. Quarantine Sta., here.

Federal Government Work (Continued)

BIDS RECEIVED

Va., Fort Meyer—Receiving Basin—Constructing Quartermaster, War Dept., Wash., D. C., constructing rein.-con. receiving basin with pipe connections, from L. B. Davidson, 410 Bond Bldg., Wash., D. C., (1) $2,685 (2a) $1.50 (b) $4.50 (c) $20 (d) $90 (e) $0.65 (40 days).

Ky., Louisville—Cement—U. S. Engineer, P. O. Box 72, furnishing cement, (a) 15,000 bbl. f.o.b. Kosmosdale for Dam 44 (b) 25,000 bbl. f.o.b. Addison for Dam 45 (c) 35,000 bbl. f.o.b. Owensboro, for Lock 46, all on Ohio River, from Kosmos Portland Cement Co., M. E. T. Bldg., Louisville, (a) $2.55 (b) $2.84 (c) $2.74; from Atlas Portland Cement Co., Louisville, Hermitage Portland Cement Co., 174 3rd Ave., Nashville, Tenn., and Lehigh Portland Cement Co., Nashville, Tenn., (c) all $2.74. Noted Mar. 13.

CONTRACTS AWARDED

R. I., Providence—Dredging—U. S. Engineer, Providence, maintenance dredging in Connecticut River below Hartford, Conn., to Hartford & New York Transportation Co., 285 State St., Hartford, Conn., $17,150. Noted Feb. 28.

Pa., Phila.—Paving—U. S. Shipping Bd., Wash., D. C., paving at Army Base here, to Acchione & Canuso Paving Co., 804 South 12th St., $46,828.

Ala., Florence—Generators—U. S. Dist. Engineer, Florence, 4 generators with exciters, etc., to General Electric Co., River Rd., Schenectady, N. Y., $757,120. Noted Apr. 3.

Ala., Florence—Switchboard—U. S. Engineer, War Dept., Wash., D. C., switchboard for power house, Wilson Dam, to General Electric Co., River Rd., Schenectady, N. Y., $378,950. Noted Feb. 7.

O., Cincinnati—Cement—U. S. Engineer, furnishing 6,200 bbl. cement for Dams 34, 36 and 38, Ohio River, to Wellson Iron Furnace Co., Jackson, O., 2,000 bbl. at $2.78 and 4,200 bbl. at $2.67. Noted Apr. 3.

Ind., Leavenworth—Stone—U. S. Engineer, P. O. Box 72, Louisville, Ky., 5,000 tons derrick stone for Dam 44, Ohio River, to Webster Stone Co., Irvington, Ky., $1.98 per ton f.o.b. Pilcher, Ky.

Wis., Mineral Pointe—Post Office—Treas. Dept., Supervising Architect, Wash., D. C., post office here, to F. R. Comb Co., 2123 Chicago Ave., Minneapolis, Minn., $49,187.

Washington—Roads—C. H. Purcell, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, 316 New Postoffice Bldg., Portland, Ore., constructing and improving 5.9 mi. Glacier; Excelsior Natl. Forest Rd., in Whatcom Co., to Sloan Constr. Co., Columbia Bldg., Spokane, $35,797, also 9.5 mi. Shuksan-Austin Pass Natl. Forest Rd., Whatcom Co., to Strong & Carlson, Tacoma, $198,875.

Calif., San Diego — Surface — Bureau Yards & Docks, Navy Dept., Wash., D. C., surface for parade ground at Training Sta., here, to Gilmore Oil Co., Hancock and Court Sts.

Unclassified

PROPOSED WORK

Gas Mains—New York—Elmira Water, Light & Railroad Co., Elmira, plans extending gas mains to Elmira Heights. $40,000-$45,000.

Transmission Line—New York—Adirondack Light & Power Corp., State St., Schenectady, plans twin wood pole, 3 phase double circuit, 114,000 volt line from Beardsley Falls to Colliers, approximately 46 mi.

Transmission Line — New York — Binghamton Light, Heat & Power Co., 172 Washington St., Binghamton, plans 3 phase high tension transmission line to Cortland. To exceed $50,000.

Transmission Lines, etc.—New York—New York State Gas & Electric Corp., 123 South Cayuga St., Ithaca, plans transmission and distribution lines in Laurens, Milford, Hancock, Margaretville, Richfield Springs, Fleischmans and 26 other villages. $100,000.

Hydro-electric Development, etc.—Ballston Spa, N. Y.—Bd. Supervs. Saratoga Co. takes bids about May 15, hydro-electric development and water supply system together with transmission lines, pipe lines and elevated supply tank, for Homestead Sanatorium. Utilities Eng. Co., Inc., 467 Bway., Albany, engrs. Noted Aug. 23.

Distribution Lines—Granville, N. Y.—Granville Gas & Electric Co. had plans prepared 6 mi. distribution lines in slate quarries adjacent to Granville. $40,000. P. Fasoli, mgr.

Gas Mains—Troy, N. Y.—Troy Coke & Iron Corp. of South Troy, plans gas mains from company's plant under Hudson River to Breaker Island. To exceed $100,000.

Retaining Wall—Meyersdale, Pa.—See "Streets and Roads."

Coaling and Storage Station—Millen, Ga.—Central of Georgia R.R. Co., 233 West Broad St., Savannah, plans 500 ton rein.-con. coaling and storage station. $40,000. W. K. Lawrence, ch. engr.

Grade Separation — Shreveport, La. — Kansas City Southern Ry., 11th and Wyandotte Sts., Kansas City, Mo., having preliminary plans prepared grade separation work, raising tracks, bridges, etc. in various parts of city, especially in West End, $900,000, also concrete and steel viaduct at Texas Ave. crossing, $100,000. A. N. Reece, ch. engr.

Athletic Field, etc.—Cedarburg, Wis.—Barth & Straub plan athletic field at Hilgen Spring Park, incl. pool, track, play ground apparatus, tennis courts, etc. Engineer not selected.

Lighting System — Platteville, Wis. — Making plans ornamental street lighting system. $25,000. W. E. Skinner, 3241 Aldrich Ave., Minneapolis, Minn., engr.

Retaining Wall—El Paso, Tex.—Election Apr. 30, $49,000 bonds, retaining wall for Rio Grande St., earth and rein.-con., also dredging; $105,000 bonds, river retaining walls and some dredging. Address Mayor Dudley.

Grain Elevator—Longview, Tex.—Held Bros. Grain Co., plans 100 x 125 ft. grain elevator.

Transmission Line—Deer Creek, Okla.—See "Industrial Works."

Turbo Generators, etc. — Oregon and Washington — Pacific Power & Light Co., Gasco Bldg., Portland, Ore., plans to expend $1,500,000 for betterments and extensions to properties in Oregon and Washington, incl. new steam driven turbo generator and power house in Astoria, Ore., sub-station and transformer at Pendleton, Ore., additional transformer at The Dalles, Ore., reconstructing power lines in Hood River, Ore., extending lines in Yakima and Walla Walla districts, Wash., etc. G. W. Talbot, pres.

Electric Improvements—Portland, Ore.—Northwestern Electric Co., Pittock Blk., plans to expend over $1,000,000 for improvements and extensions, incl. two 1,000 hp. steam heating boilers at Lincoln St. station, 6 new distributing heating stations and extensions to pipe lines, electrical pole and conduit lines.

Power Distributing Line — California — Pacific Gas & Electric Co., 445 Sutter St., San Francisco, appropriated $58,500, reconstructing high tension distributing lines from Colusa to Hamilton. Private plans.

Wharf—San Diego, Calif.—See "Buildings."

Stadium—San Francisco, Calif.—City and San Francisco Co. plan stadium, seating capacity from 20,000 to $50,000, will be provided with tennis and handball courts, track and football fields, basket ball pavilion, etc., in Golden Gate Park. $300,000. M. M. O'Shaughnessy, city engr.

Subway — Cooksville, Ont. — Dept. Pub. Highways, 110 University Ave., Toronto, having plans prepared rein.-con. and steel subway under Grand Trunk Ry. tracks at Center Rd., here. $75,000. G. Hogarth, 110 University Ave., Toronto, engr.

Arena—Kingston, Ont.—Apr. 18, by J. S. McDonnell, competitive drawings and estimates, 1 story, 80 x 200 ft. rein.-con., brick and steel, plain foundation, Albert and Union Sts., for Queens University. $150,000.

Electric and Power System—Ottawa, Ont.—Ottawa Hydro Electric Comn., 75 Laurier Ave., plans to extend electric light and power system. $50,000.

Electric Light and Power System—Weston, Ont.—Town plans extending electric light and power system. $25,000.

BIDS DESIRED

Ramps—New York, N. Y.—Apr. 24, by Transit Comn., 49 Lafayette St., permanent ramps at Times Sq. station, Routes 4 and 36, Sect. 3, Agreement "CT." G. McAneny, chn.

Subway—Brooklyn, N. Y.—Apr. 25, by Transit Comn., 49 Lafayette St., New York, Route 70, extending along and under Bedford Ave. from DeKalb Ave. to Keap St., here. G. McAneny, chn.

Column Foundations—New York, N. Y.—Apr. 25, by Transit Comn., 49 Lafayette St., column foundations, retaining walls and embankment for Westchester Ave. Yard, Routes 19 and 20. G. McAneny, chn.

Fill — Miami, Fla. — Apr. 29, City Comn., hydraulic filling of Bay Front Park. E. Cotton, dir. pub. utilities; advs. N.-R. Apr. 17.

Steel Pontoon—Algiers, La.—May 1, by Algiers Pub. Serv. Co., Inc., Canal St., New Orleans, 1 steel pontoon for Morgan St. ferry landing, here.

BIDS RECEIVED

Stadium—Erie, Pa.—Bd. Educ., concrete and steel stadium, from E. E. Austin & Son, Commerce Bldg., $157,000. Noted Feb. 14.

Street Lighting, etc. — Chicago, Ill. — South Park Comrs., street lighting, etc., on South Park Ave., from R. I. Purcell, 219 South Wood St., $98,123.

CONTRACTS AWARDED

Jetty — Belmar, N. J. — Boro Council, Mar. 25, 300 ft. stone jetty, to T. Proctor, 212 North 5th Ave., Long Branch, $50,000. Noted Mar. 20.

Park—Trenton, N. J.—Embellishment of North Trenton Park, to J. R. Grant, 56 McKinley Ave., and J. Jingola, 416 Princeton St., $21,864. Noted Apr. 10.

Foundations—Phila., Pa.—Phila. Rapid Transit Co., 8th and Dauphin Sts., foundations for carbarns, inspection shop, office building, sand panel, water storage reservoir, etc., 19th, 20th and Johnston Sts., to H. E. Baton, 1713 Sansom St.

Stadium — Parkersburg, W. Va. — Bd. Educ., high school stadium, to Plate & Fogel, Parkersburg, $53,335.

Retaining Wall—Miami, Fla.—City, retaining wall, timber sheet pile bulkhead, for Bay Front Park, incl. 43,500 lin.ft. wood piling, 440,000 ft. sheet wood piling, to Comer & Ebsany Foundation Co., South West 2nd Ave., $70,000.

Levee—New Orleans, La.—Atchafalaya Levee Dist., 1,000,000 cu.yd. levee work at Aabama Island, to McWilliams Co., Exch. Bldg., Memphis, Tenn., $0.2193 per cu.yd.

Levees—Shreveport, La.—Caddo Parish Levee Bd., repairs, etc. to 18 mi. Loole and Horseshoe Levees, to Douglas, Buchanan & Crow, Shreveport, $115,000.

Transmission Line, etc. — Wisconsin — Wisconsin Valley Electric Co., R. Drew, purch. agt., Wausau, will build power transmission line to Merrill and construct and equip 3 electric sub-stations, by day labor. $80,000. Private plans. Noted Mar. 27.

Gas Mains—Houston, Tex.—Houston Gas & Fuel Co., 607 San Jacinto St., will lay gas mains from central plant to storage tanks at Link and West Clay Sts. and at 12th and Studewood Sts., by day labor. $750,000.

Grain Elevator—Midland, Ont.—Midland Grain Elevator Co., rein.-con. grain elevator, wood pile foundation, to McFarlane-Pratt-Hanley Ltd., Midland. Est. $500,000.

Tower—Ottawa, Ont.—Dominion Government, Parliament Bldg., constructing 300 ft. Peace Tower, to P. Lyall & Son, Parliament Bldg., $600,000 plus 7%.

Material and Equipment

BIDS DESIRED

Broken Stone—Brooklyn, N. Y.—Apr. 23, by E. Riegelmann, boro pres., Boro Hall, 4,000 cu.yd. 1½ in. and 1,200 cu.yd. 3 in. broken stone, 1,000 cu.yd. broken stone screenings, and 4,000 cu.yd. sand grit.

Portland Cement, etc.—Millville, N. J.—Apr. 25, by Bd. City Comrs., 29,600 bags standard Portland cement, 2,600 tons concrete sand, 5,200 tons concrete gravel, 21,000 sq.yd. steel reinforcing fabric not galvanized, shipped in sheets cut to length as directed, 844 ft. 12 and 15 in. vitr. terra cotta sewer pipe, etc. W. S. Kates, dir. Streets and Pub. Impvts.

Chutes, etc.—New Orleans, La.—Apr. 24, by Bd. Port Comrs., New Court Bldg., furnishing chutes, dock spouts, booms, winches, etc., for belt conveyor extensions and public coal commodity handling plant.

Road Oil—Circleville, O.—Apr. 21, by L. Schneider, dir. Pub. Wks., 40,000 to 50,000 gal. road oil, f.o.b. Circleville.

Asphalt Repair Outfit—East Cleveland (Cleveland, P. O.), O.—Apr. 23, by C. A. Carran, city mgr., 1 asphalt repair outfit.

Patrol Graders—Alma, Wis.—J. Reinhardt, highway comr. Buffalo Co., taking bids 2 patrol graders.

Pile Driving Machine—Cambridge, Wis.—H. O. Jarlsberg taking bids pile driving machine.

Sand, Gravel, etc.—Minneapolis, Minn.—Apr. 23, by F. S. Gram, city purch. agt., 3,700 cu.yd. sand and 4,600 cu.yd. broken stone or gravel. N. W. Elsberg, city engr.